THE
CONTRACT JOURNAL
INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,232 82nd YEAR THURSDAY, AUGUST 4, 1960 PRICE 2/-

ROSS By-pass and Ross Tewkesbury Motorway (Contract No. 1) by courtesy of Tarmac Civil Engineering Ltd.

County Surveyor: D. H. Banks, M.B.E. T.D., B.Sc., A.M.I.C.E.

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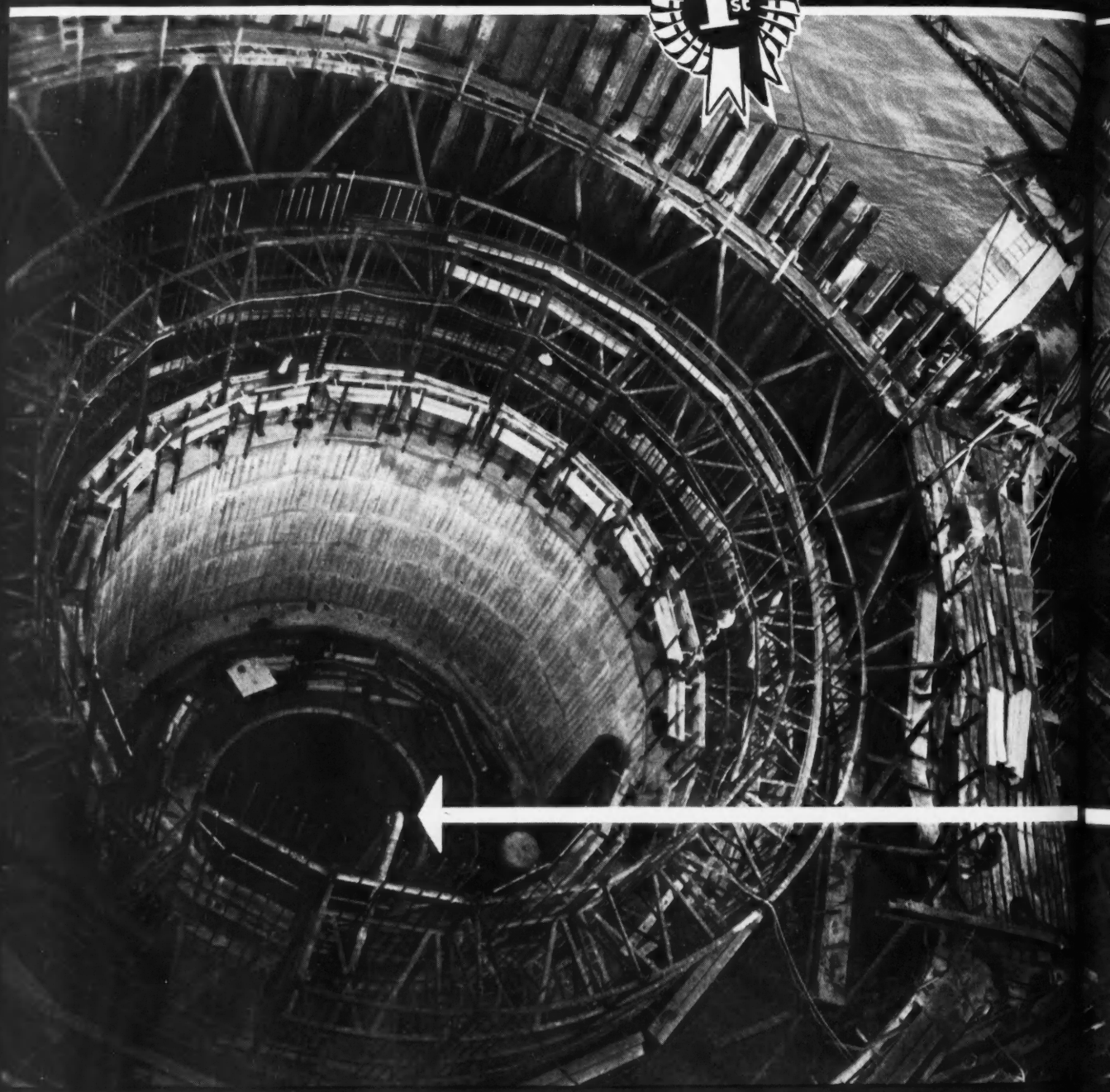
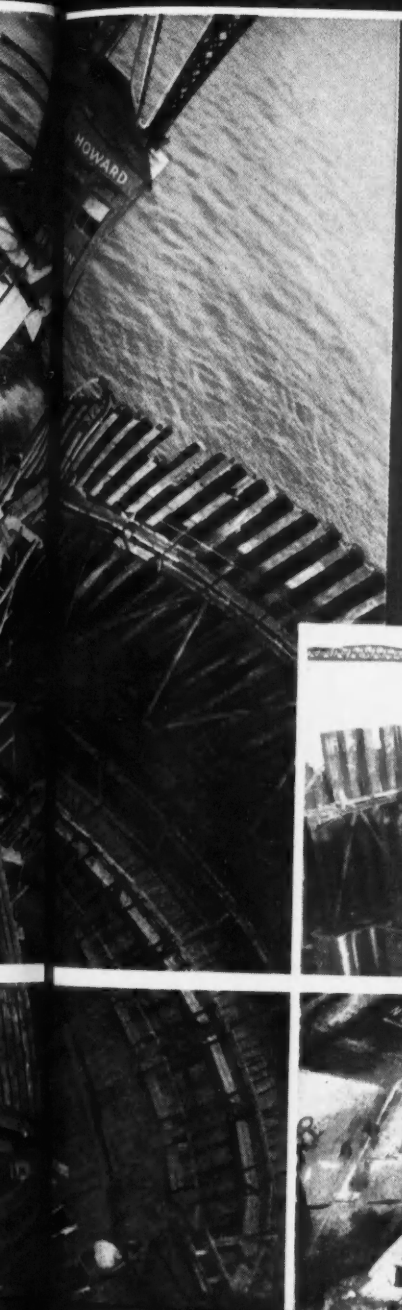
DINKUMS 'FIRST



T ON THE 'FORTH!'



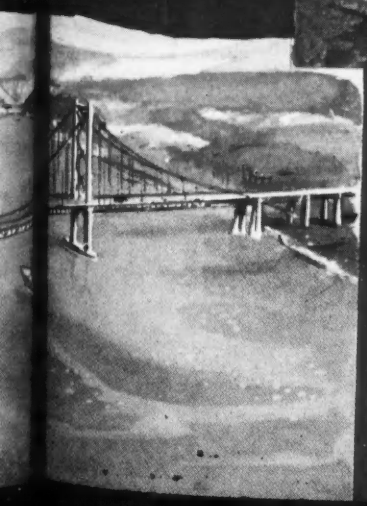
Because of the hardness of the Boulder Clay under the Forth Estuary it was anticipated that pneumatic clay spades, drilling or blasting would be necessary for the removal of this before constructing the concrete foundations for the new Forth Road Bridge.

It was, however, decided to try Dinkums Diggers. Four of these machines were lowered inside the Caissons 100 feet below the surface and working day and night, 24 hours a day, 7 days a week, these DINKUMS enabled this vast project to proceed according to plan.

The Main Contractors for the foundation work for this new Forth Road Bridge are Messrs. John Howard & Co. Ltd. of London. When completed in 1962, the Bridge which is over 1½ miles long, will be the longest Suspension Bridge in Europe with a centre span of 3,300 feet and towering to over 300 feet above sea level. It will have two 24 feet wide Carriage Ways, two 9 feet Cycle Tracks, and two 6 feet Pedestrian Walks. The Reekie Plant Company, Cupar, Distributors for the Dinkum Digger Major Excavator in Scotland, have been responsible for the supply of these machines.

A Dinkum being lowered down the shaft. Outstanding of note will have been excavated before it again sees the light of day.

Tearing out the Boulder Clay and loading it into skips, the dependable Dinkums work night and day many feet below the bed of the sea.



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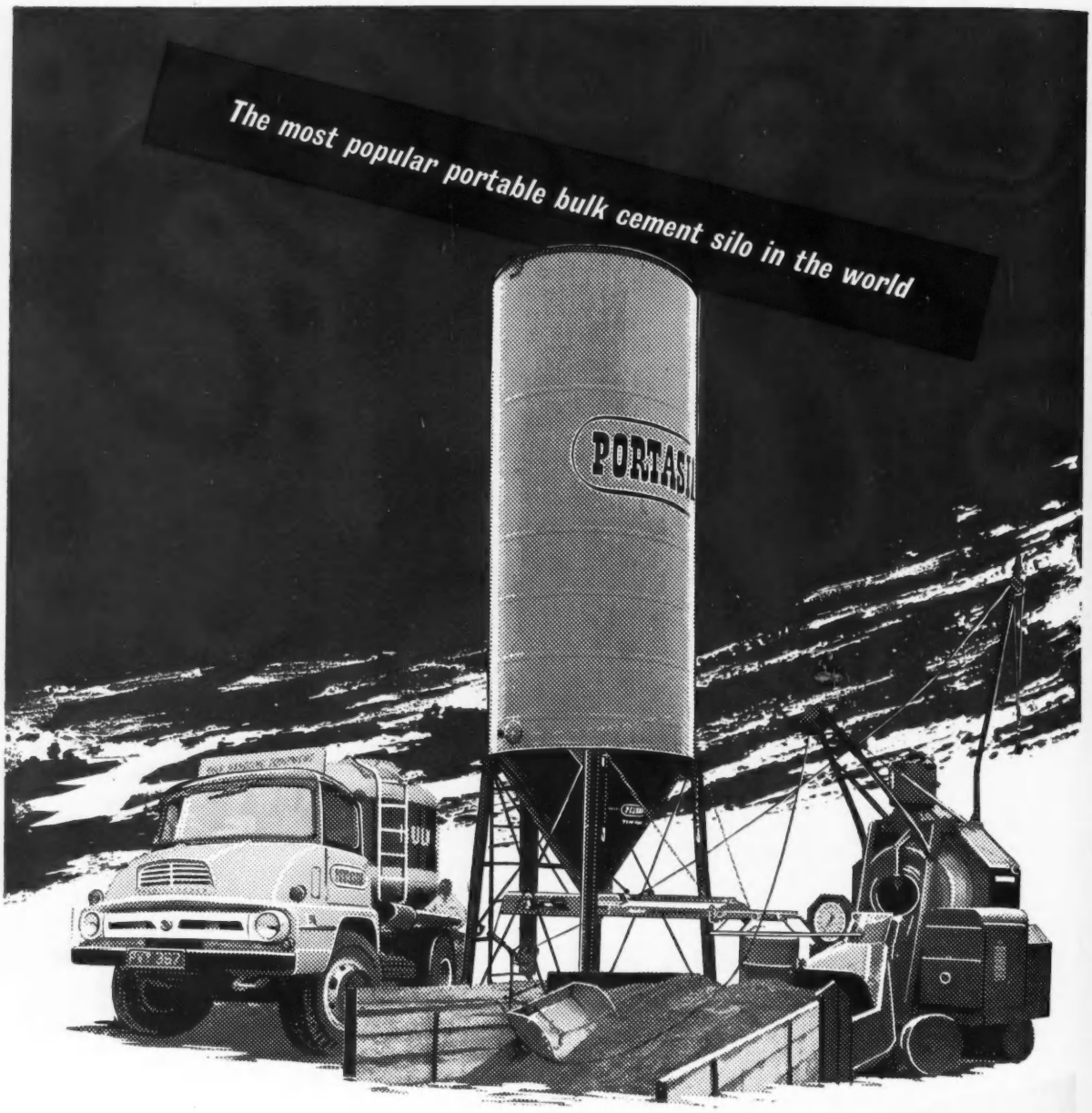

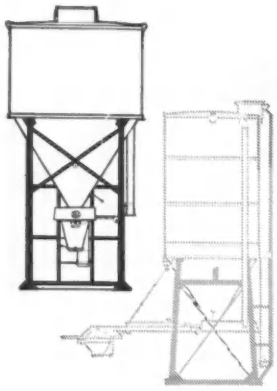

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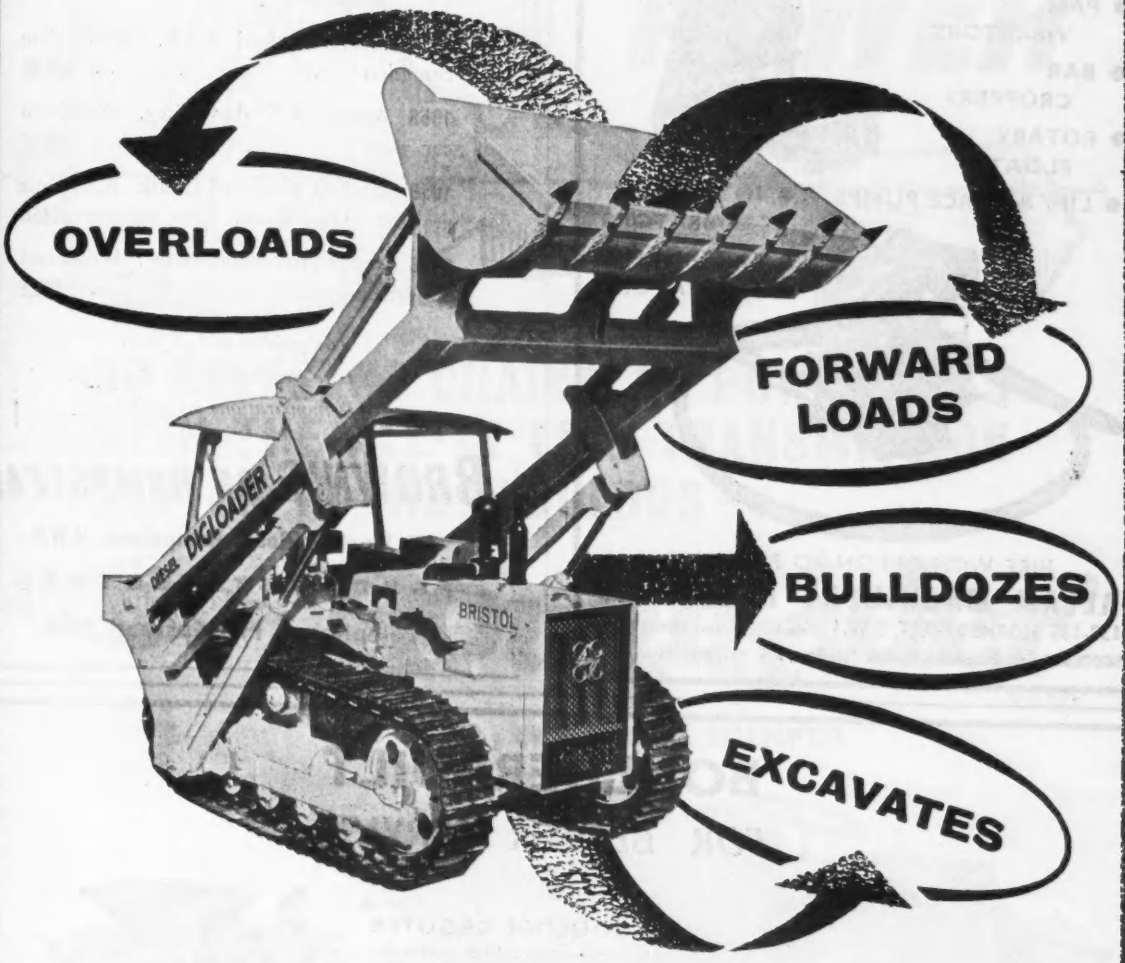

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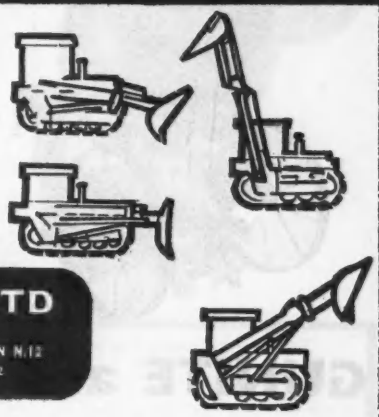

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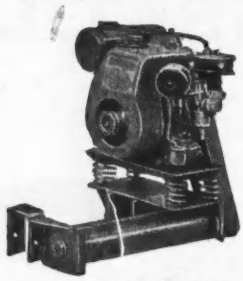

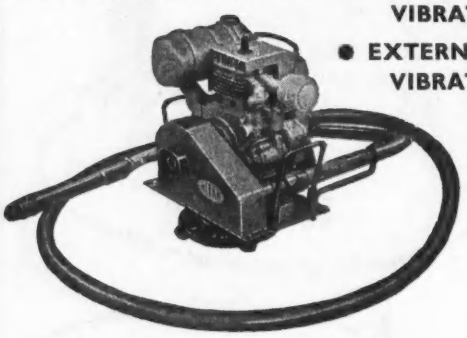

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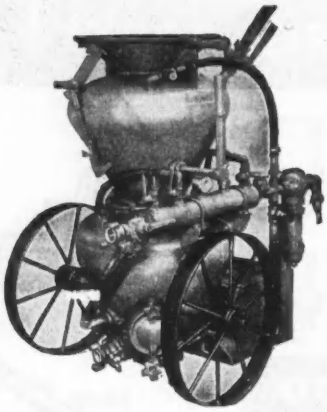

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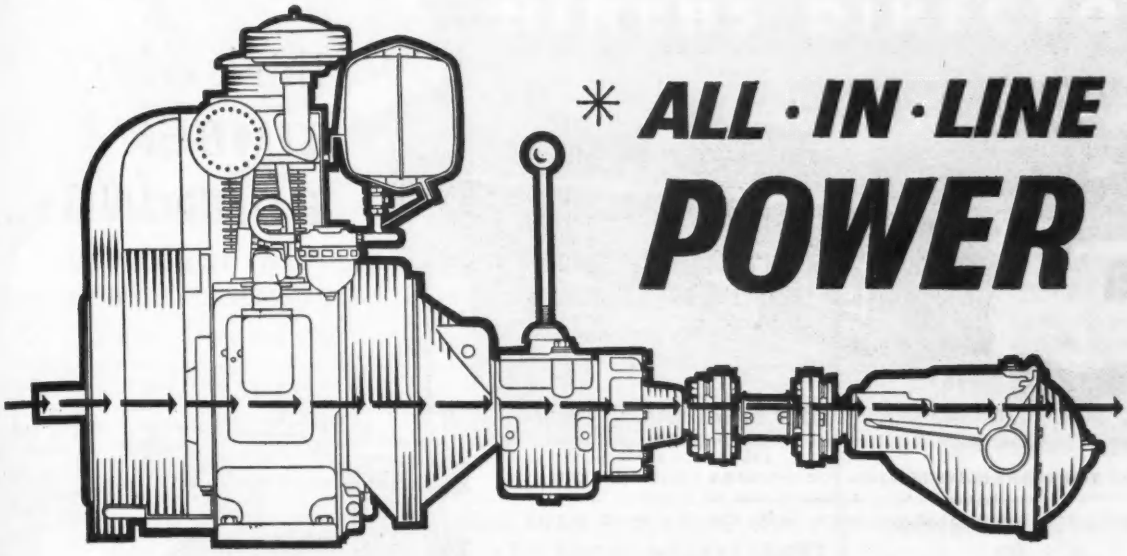

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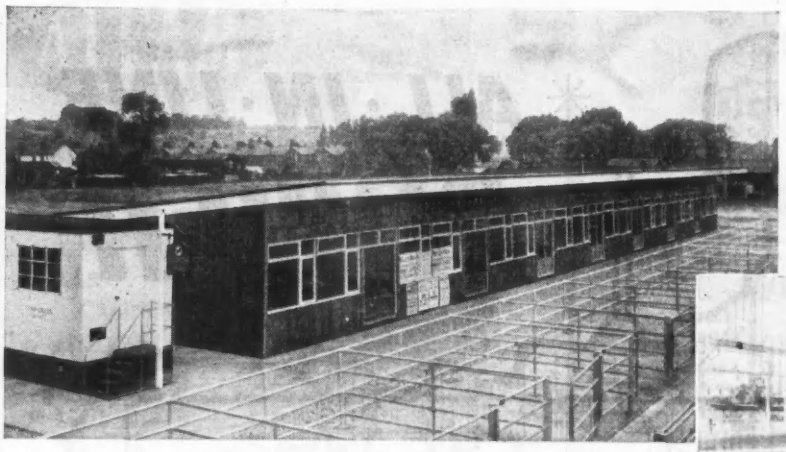

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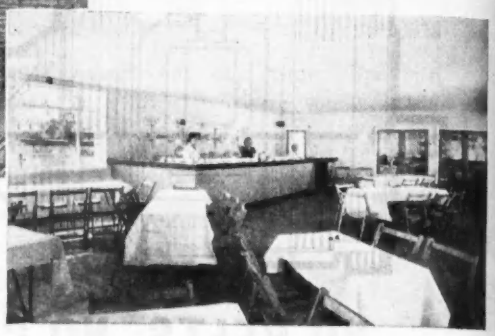

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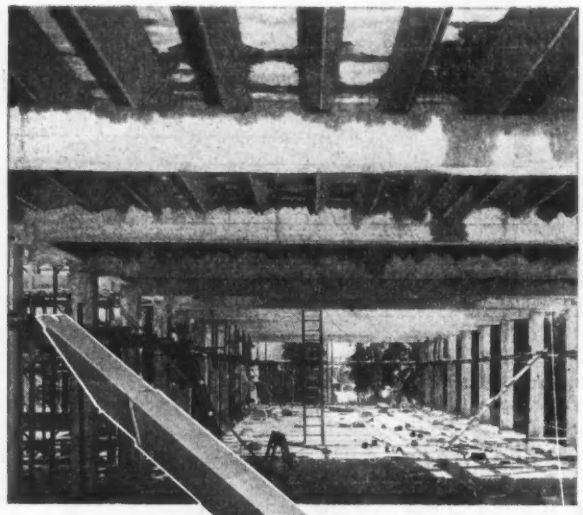

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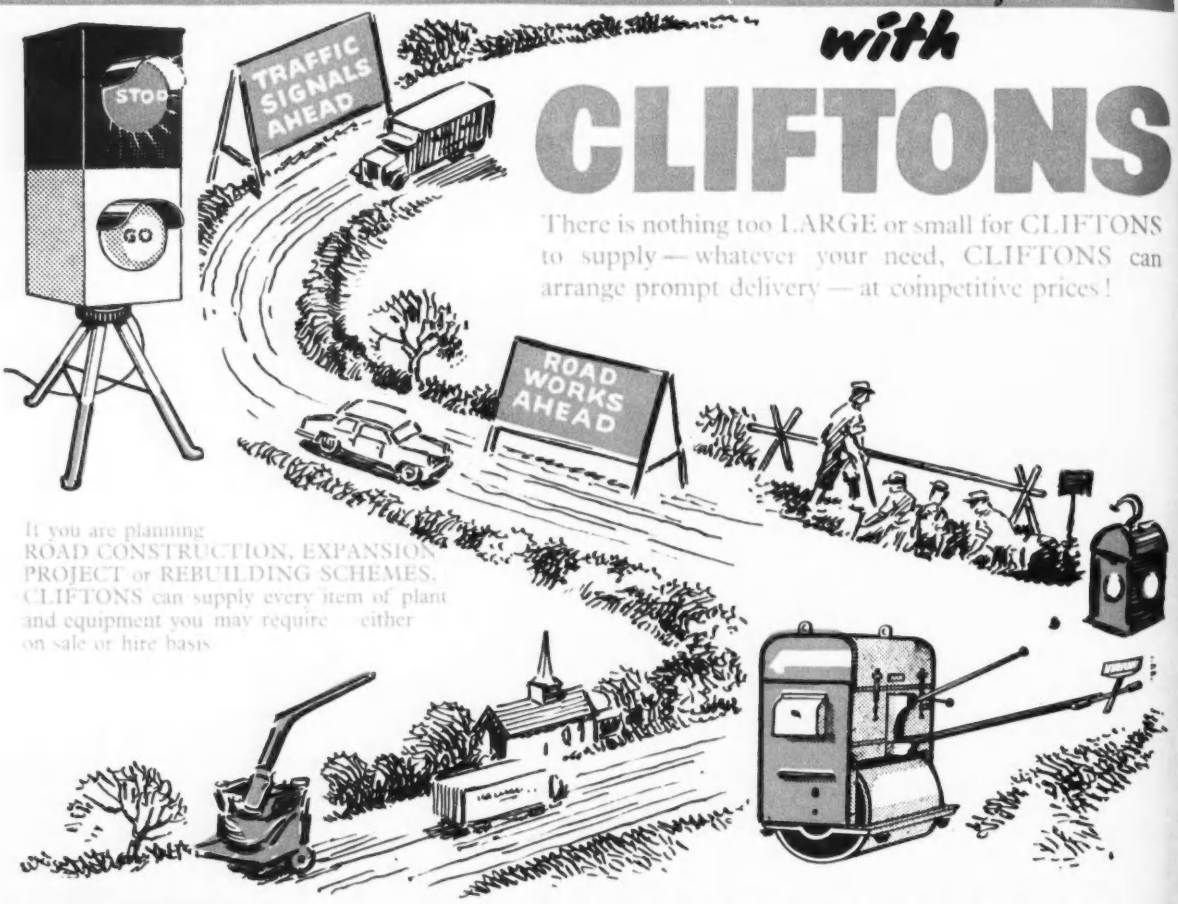

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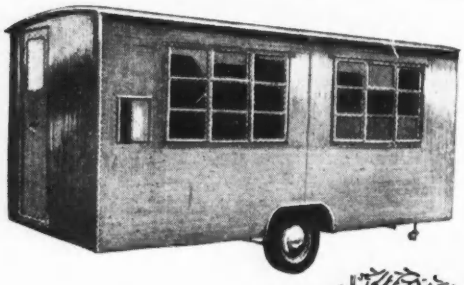

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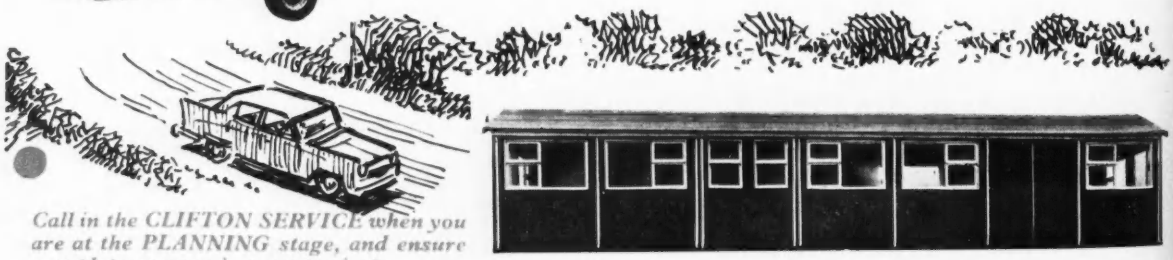

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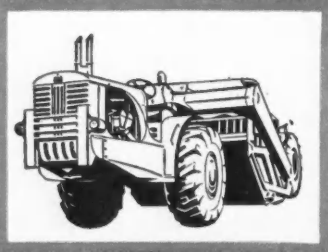

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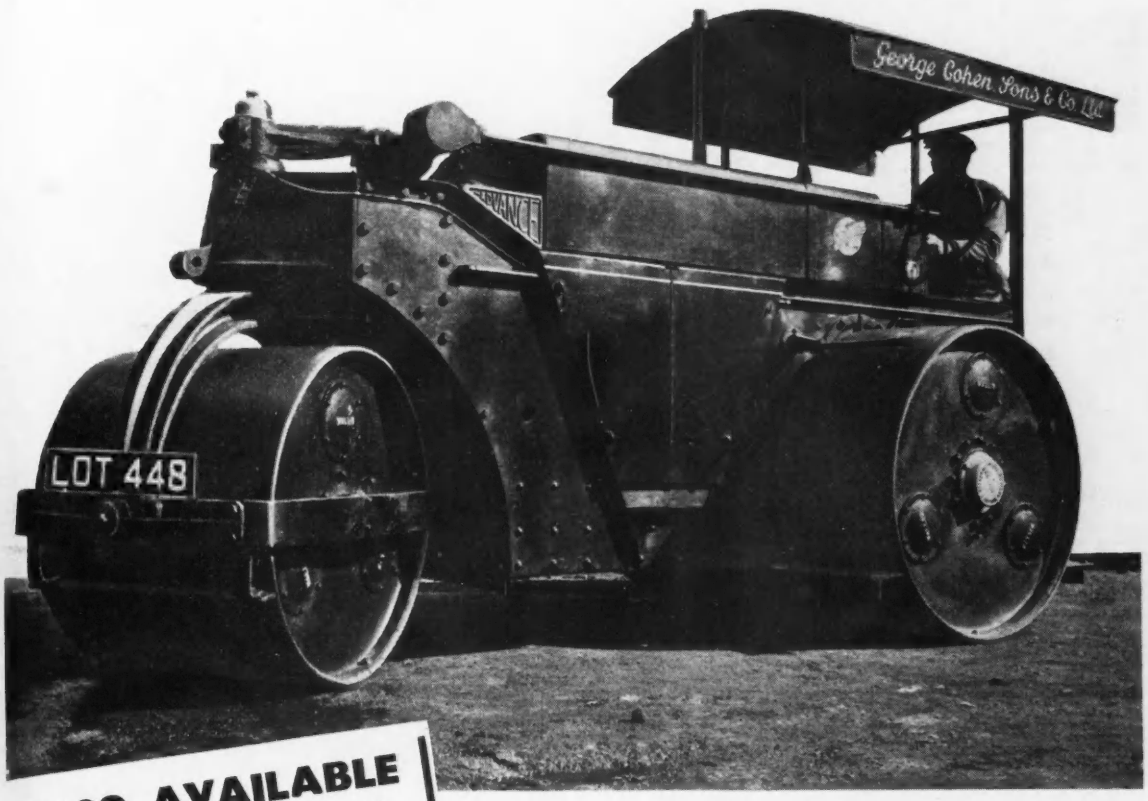

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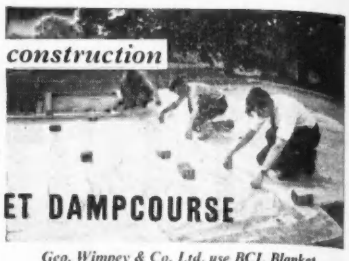

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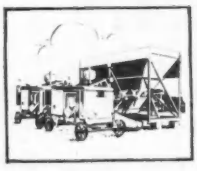

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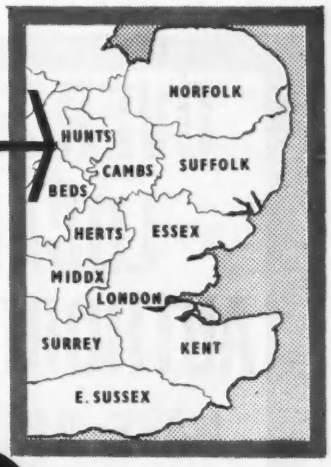

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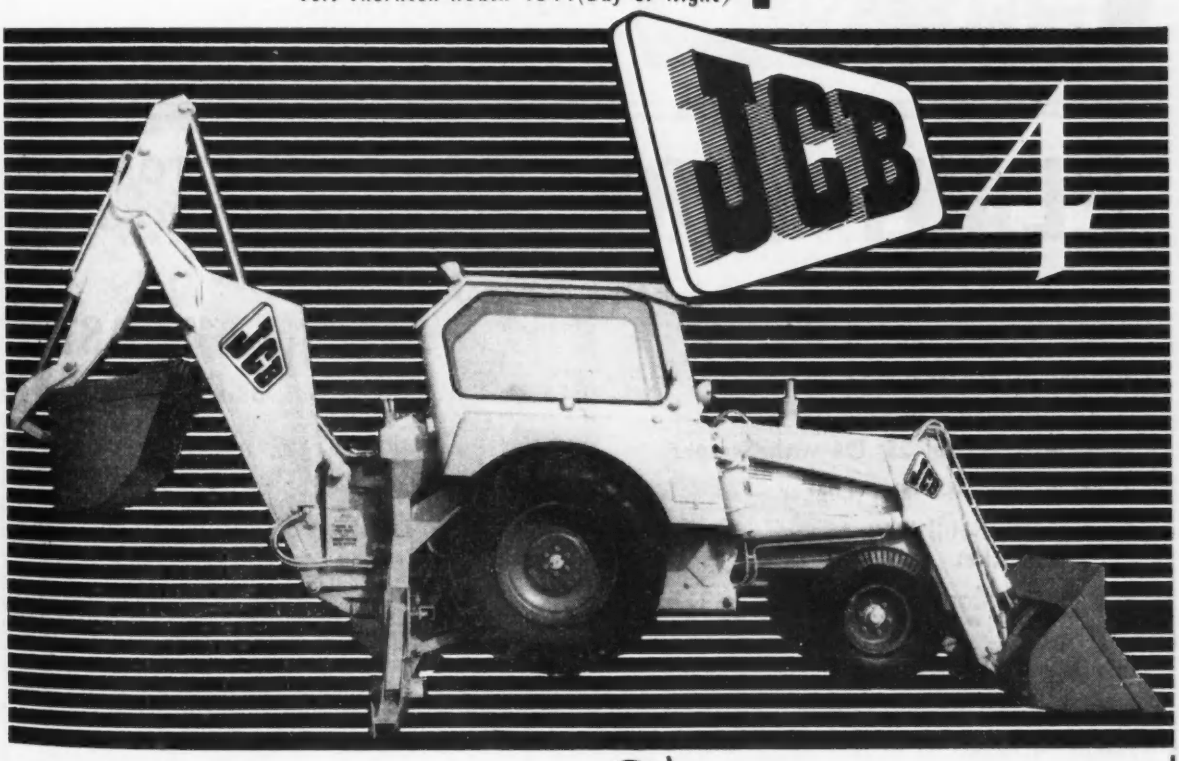

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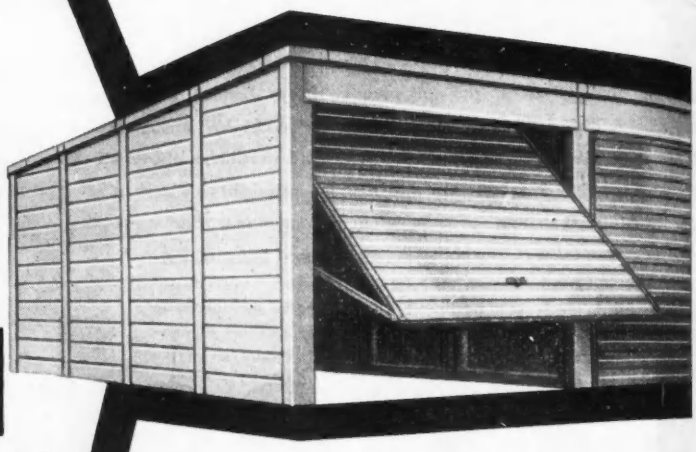

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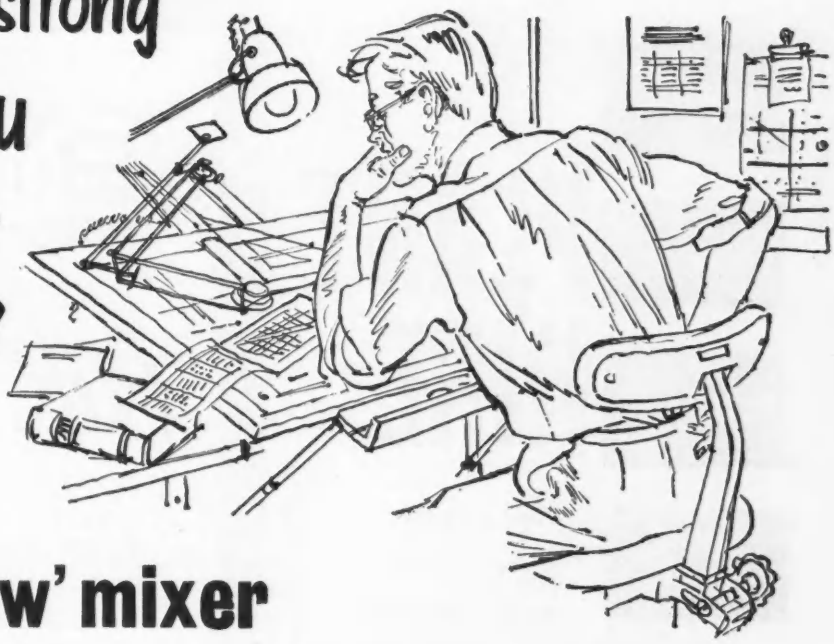

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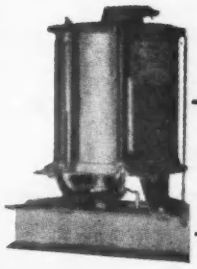

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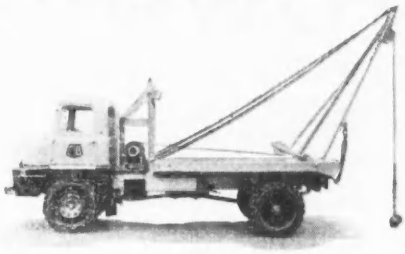

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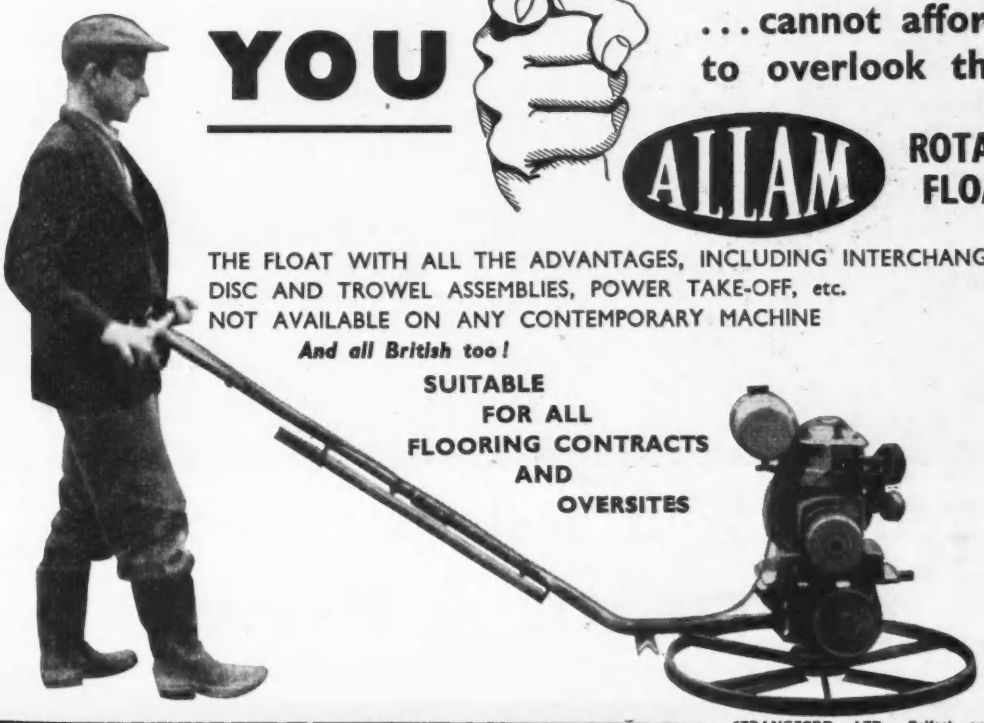

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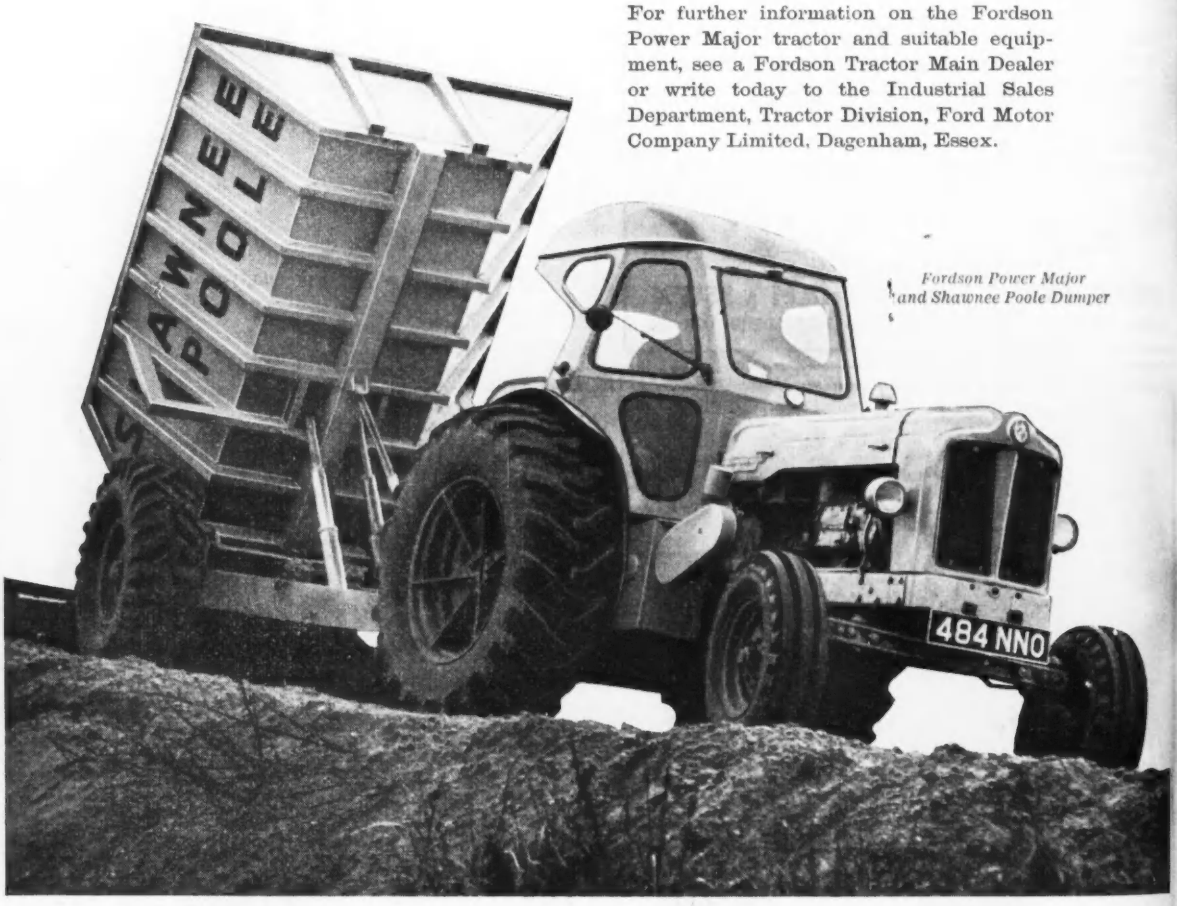

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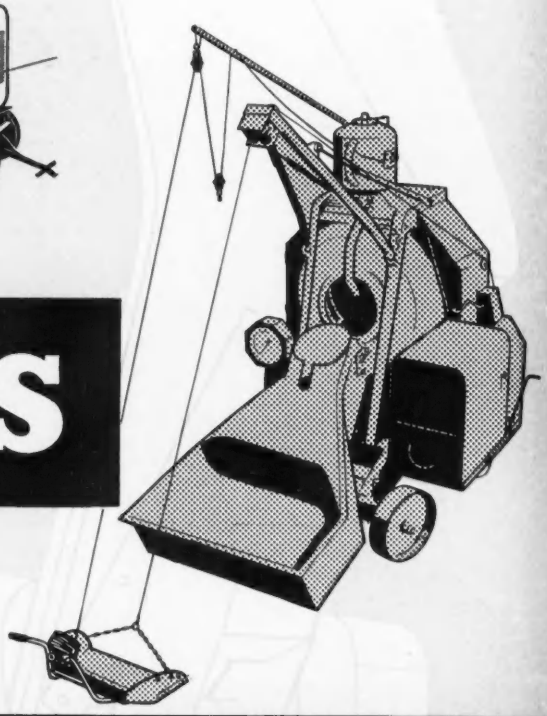

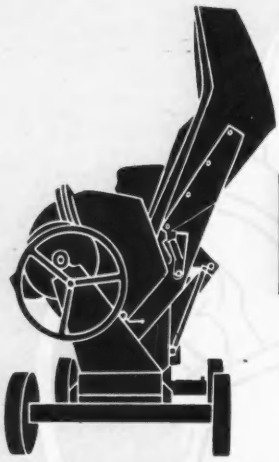

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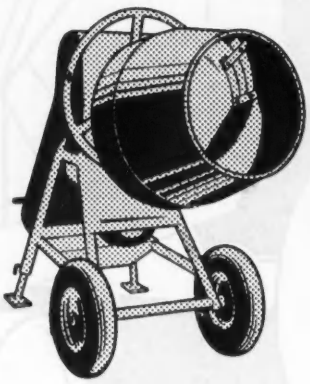

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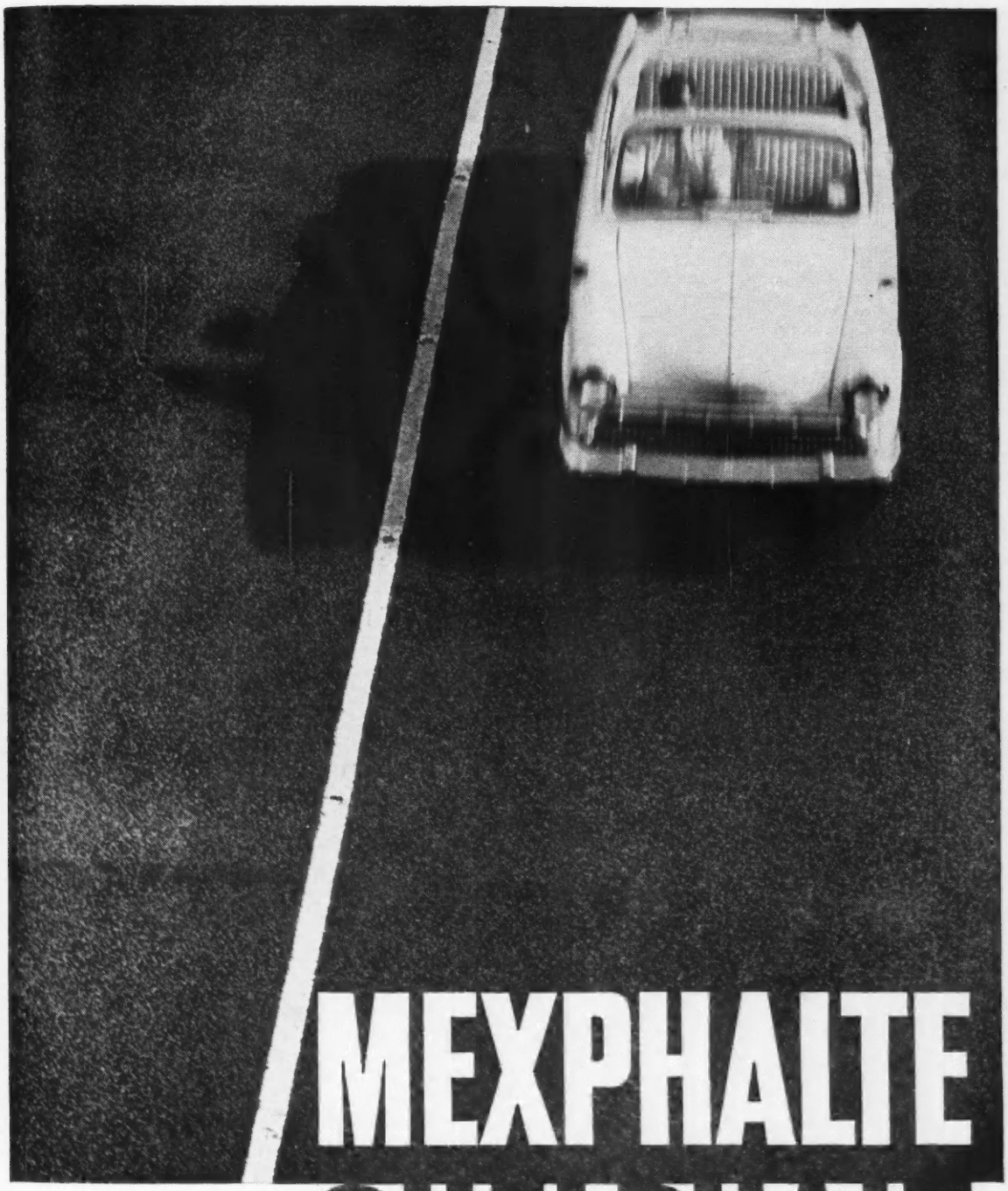

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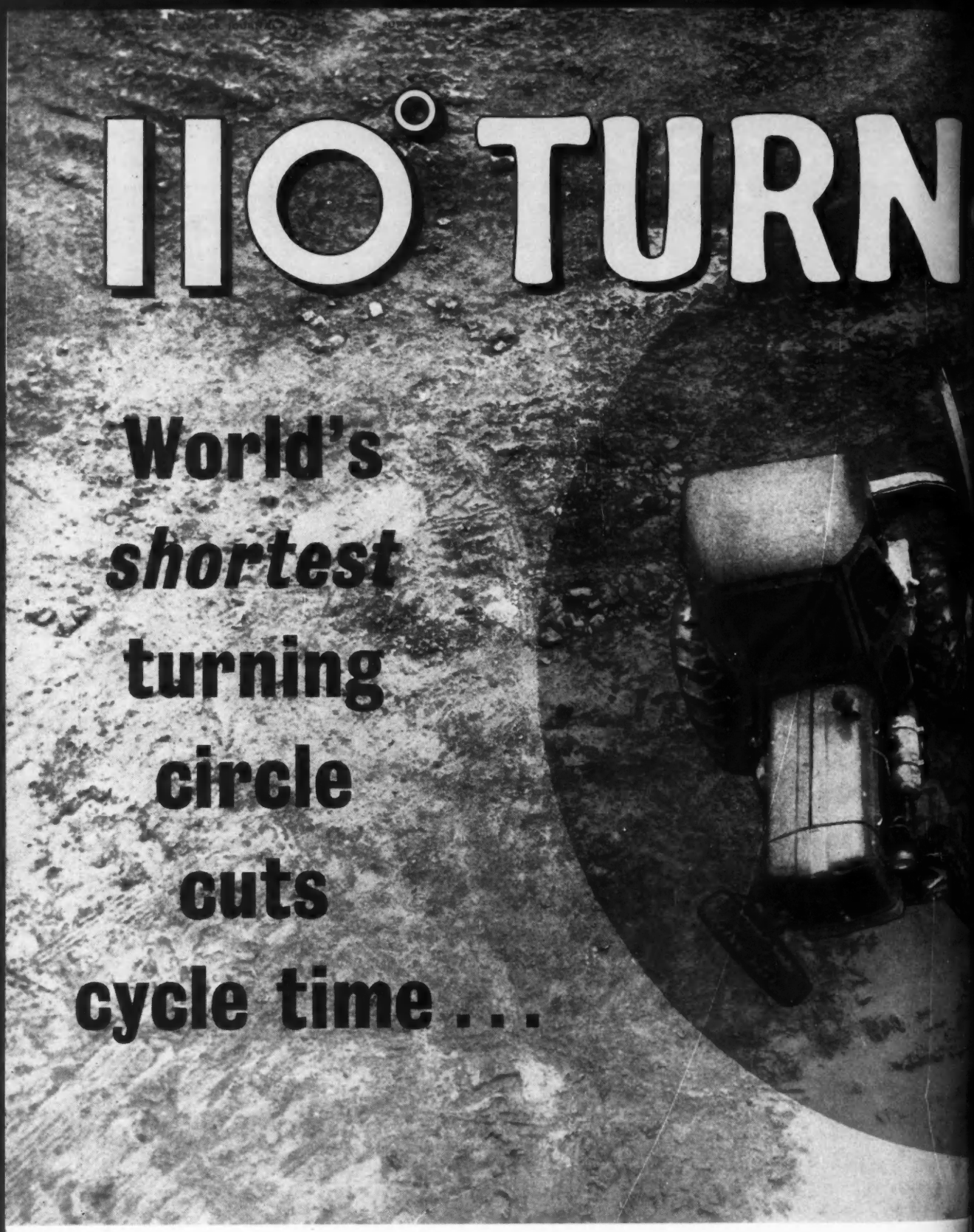

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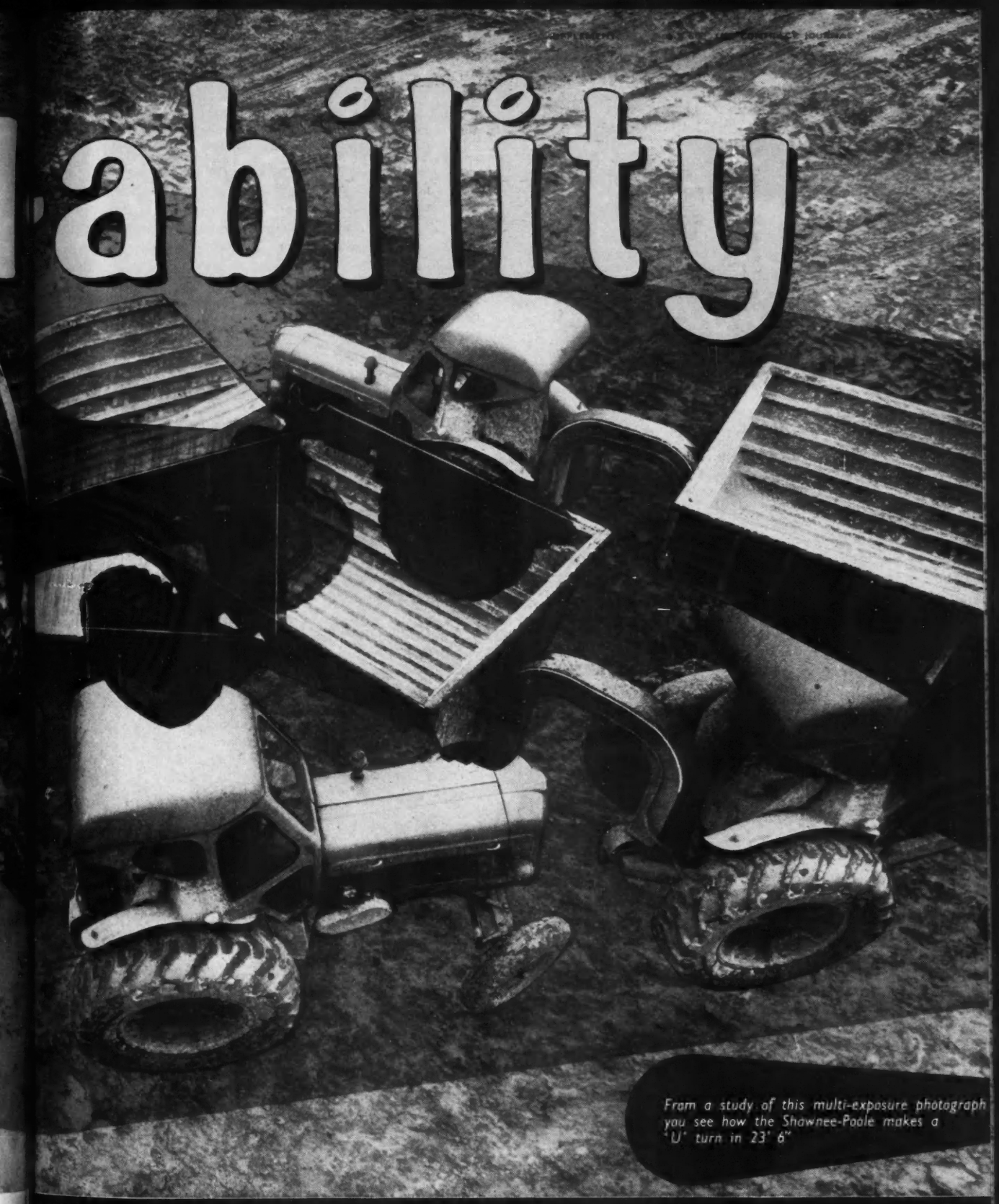

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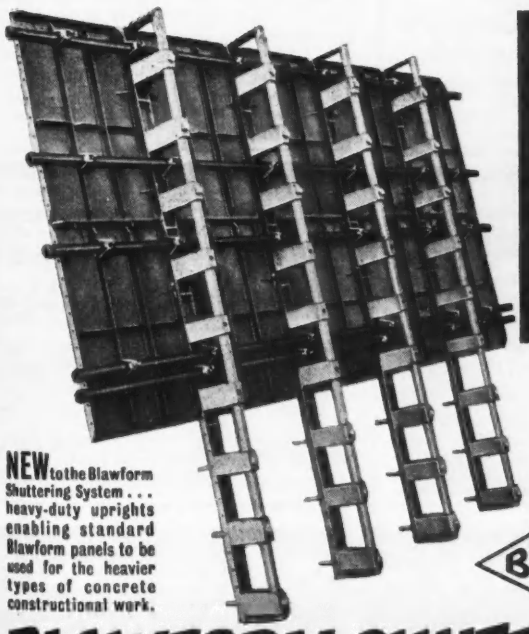

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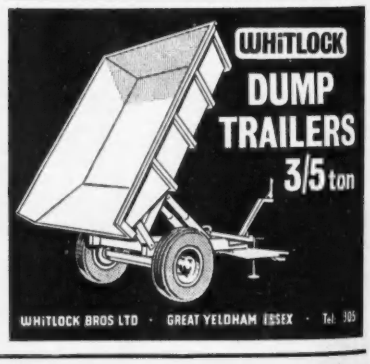

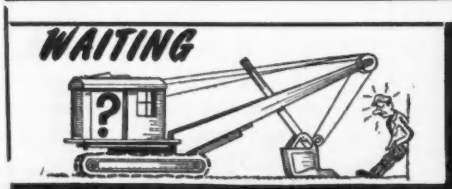

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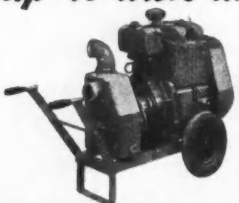

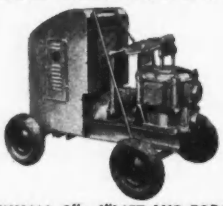

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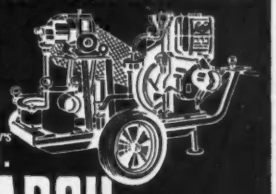

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FOR SALE. Two new Broomwade WR120 Rotary COMPRESSORS, with Ford Diesel Engine, four-wheel trailer model, pneumatic tyres. Delivery ex stock at list price.—C. AND A. PLANT SERVICES, LTD., 202-212 Heald Grove, Rusholme, Manchester, 14. Tel.: RUSholme 7291-5.

FOR SALE. 11-ton Aveling-Barford Diesel-driven ROAD ROLLER, engine overhauled.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

FOR SALE

Lima 2400 EXCAVATORS, with Dragline and Forward Shovel. Choice of four.
Marion 111M EXCAVATORS. Choice of two.
Lima 1201 EXCAVATORS. Choice of two.
Ruston 100B EXCAVATOR, Diesel/Electric.
All machines in excellent condition, may be seen working, and are open to any inspection and trial. Immediate delivery.
Call, write or 'phone:
A.R.C. MOTOR CO., LTD.,
Redhill Works, Arnold, Nottingham. Tel. 26-3331/5.

DEEP ROCK DRILLING
Halco Stenuick Drills for 4" or 3½" dia. holes available with skilled operators. Expert advice freely given.
POWER HANDLING LTD.,
CASTLEFIELD WORKS · BINGLEY 4568

LEACH GIVE
"OFF THE SHELF SERVICE"
for
ARMSTRONG-WHITWORTH PNEUMATIC TOOLS HOSES AND SPARES
Write for Details:
HUBERT C. LEACH LIMITED
HIGH STREET, CHESHUNT
Telephone: WALTHAM CROSS 25161

Hire them from
JOSEPH PUGSLEY AND SONS LTD *Lawrence Hill* **BRISTOL, 5**
TELEPHONE 56037 (4 Lines) · GRAMS, 'PISTON', BRISTOL·

★ *Further Classified Plant Advertisements on pages 565-572*

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

FOR HIRE and SALE: ARMSTRONG-WHITWORTH PNEUMATIC POKER-TYPE CONCRETE VIBRATORS.
We are distributors for all types of Armstrong-Whitworth Pneumatic CONTRACTORS' TOOLS, including Concrete Breakers, Light Picks, Clay Diggers, Rock Drills, Pumps, Backfill Rammers and Tampers, Hoses and Accessories. We hold a large stock of Spares and can give a 48-hour repair service. New and Second-hand Air Pumps COMPRESSORS for SALE. Send for list.
HUBERT C. LEACH, LTD., 131 High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

FOR SALE.
J.C.B. DIGGER, on Major Diesel, Cab, two Buckets, 1956, £650.
DINKUM DIGGER, Skyhi Front Shovel, two Buckets, Blade, £595.
DINKUM MAJOR, 1958, with Power Shovel, Cab, two Buckets, £1,600.
WILLIAM R. SELWOOD, LTD.,
Chandler's Ford, Hants. 'Phone 2981.

WELDING PLANT FOR HIRE.
Also:
COMPRESSORS.
MOBILE CRANES.
LIGHTING PLANTS.
RYE-ARC, LTD., Plant Hire Division, Silvertown Works, North Woolwich Road, London, E.16. 'Phone: ALBert Dock 4381 (10 lines).

FOR SALE.
Kue Ken No. 57 (24in. x 15in.) Jaw type STONE CRUSHER, reconditioned by makers.
Broadbent 21in. x 10in. Blake type Double-toggle STONE CRUSHER.
Broadbent 16in. x 9in. DITTO.
JOSEPH PUGSLEY AND SONS, LTD., Bristol, 5. Tel.: Bristol 56037.

DROTT 4-IN-1 SKID SHOVELS
For SALE by AXWORTHY.
Take your pick of three BTD6 DROTT 4-in-1 SKID SHOVELS working around Windsor. New in 1957/8, each with a cab and selling at £2,150/£2,200 each. Hire purchase facilities can be arranged. Ring WINDSOR 60668 to arrange a day to inspect.
AXWORTHY AND COMPANY, LTD.,
4 Ouseley Road, Old Windsor, Berks.

FOR HIRE
CONTRACTORS' PLANT AND LOW LOADING VEHICLES OF ALL TYPES AND SIZES
A.E.FARR (Plant Hire) LTD
WESTBURY · WILTS · Tel: 356 (5lines)

STEEL SHEET PILES and TRENCH SHEETS urgently WANTED. All sections bought; large and small quantities. Immediate payment.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. VICtoria 0252.

IF YOU WANT to PURCHASE or HIRE any CONTRACTORS' PLANT, please get in touch with METAL UNION (PLANT), LTD., 75 Victoria Street, London, S.W.1. Telephone: VICtoria 4868/9, 7429, 2177/8.

FOR SALE. DINKUM DIGGERS, in good working order, from £550. — Further details from GROCOCK AND DAY (PLANT HIRE), LTD., Mayfield Road, Leicester. Tel.: Leicester 58148.

FOR SALE. New 8cwt. Greens Griffin Vibrating ROLLERS; immediate delivery.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

FOR SALE. 150-h.p. Fowler Diesel MECHANICAL SHUNTING LOCOMOTIVE, new 1940, 4ft. 8½in. gauge. Price £2,250. — F. BURRILL AND CO., 235A Cathedral Road, Cardiff. Telephone 26100.

WANTED — WANTED — WANTED.
Caterpillar 463 SCRAPERS, Birtley 80s. Good prices paid.
Write Box A.A.395, "The Contract Journal."

FOR SALE. 6-ton Ransomes and Rapier Standard Petrol/Electric MOBILE CRANE; Diesel conversion available. — WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

FOR SALE. COMPRESSORS. Four C.P.T. Stationary Compressors, Y type, 800 c.f.m. All lying Wales. Full details on application. — Write Box P.2421, "The Contract Journal."

BATCHING PLANT FOR SALE
Available now, 1 cu. yd. Blaw Knox BATCHING PLANT. 80-ton 3-compartment storage, 60-ton Single Ring Cement Silo, Conveyor, Cement Blowing Unit and 7-ton Hopper Unit with Air Slides and Pressure Cylinders. Cement Weigh Hopper with valve-operating gear mounted in frame. All-Electric. Used on one contract only.
DEW - CONTRACTORS - OLDHAM
MAin 5631

FOR IMMEDIATE HIRE
977 Traxcavator HT4 Traxcavator
831 John Deere Lanz Loading Shovel
Excavators D4 Dozers Mixers
Vibrating Rollers Road Rollers
Compressors Hoists
PLANT HIRE & SALES, LTD.
MILLBROOK POINT ROAD
SOUTHAMPTON
Telephone: Southampton 75271

SLOGGETTS PLANT HIRE. — For COMPRESSORS; TRACTORS; DINKUM DIGGERS; DOZERS; CALF-DOZERS; CRANES; ROAD ROLLERS; FLOOR CENTRES; Acrow PROPS; PAINT SPRAYERS; MOBILE SITE OFFICES; PUMPS; HOISTS, 8/15cwt.; ROADFORMS, 5in. to 10in., Light and Heavy Section. All CONTRACTORS' PLANT, long or short HIRE. — 2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

FOR SALE. No. 1 DINKUM DIGGER, Mk. III, No. 494, mounted on a Fordson Major Diesel Tractor, with Skyhi ⅜ cu. yd. Forward Shovel and 18in. and 24in. Excavator Buckets, in good working order. Lying Birmingham; can be seen on appointment.—Telephone Aston Cross 2865.

WORKING in the Lancs. and Cheshire area? Woolfenden's are your MOBILE CRANE people. Light or heavy. Lorain, Michigan, Quick-Way, Neals. Jib lengths to 100ft.
WOOLFENDEN'S,
Anfield, Liverpool, 4. Stoneycroft 3755.

FOR SALE or HIRE. Latest type AIR LOCKS, L.P. COMPRESSORS and MEDICAL LOCK for caisson sinking.—A. E. FARR (PLANT HIRE), LTD., Westbury, Wilts. Tel. 356.

FOR HIRE in Leicestershire and adjacent counties: Coles and Hydrocon MOBILE CRANES and J.C.B. EXCAVATORS.—CREESE PLANT HIRE, Thurmaston, Leicester. Syston 2932/3.

WANTED. CABLEDOZER for D7 7M. Condition immaterial. — S. C. STACEY AND SONS, Lawn Lane, Springfield, Chelmsford. Broomfield 340.

WANTED, late D7 or D8 TRACTOR, base machine acceptable, or with Dozer and Winch.
Write Box P.2453, "The Contract Journal."

ROAD ROLLERS
FOR HIRE OR SALE
10 CWTS. to 10 TONS
with or without drivers
HALTRAC LIMITED
Bourne Works, Weimar St., S.W.15.
PUTney 4185

QUICKS of CHEADLE
Offer immediate delivery of NEW and USED industrial machinery
(Offered subject to being unsold)

New CD50 County Crawler Diesel Angledozer, standard equipment, electric lights, 14in. tracks, disc clutches.

New Brayloader BL25 Crawler/Loader, standard equipment, 13in. Borg and Beck clutch, cab, windscreen wiper, disc slewing clutches, 1 cu. yd. Bucket, complete with teeth.

1955 Mk. 3 County Crawler Diesel Angledozer. Undergoing complete overhaul.

1953 Fordson Major Diesel Tractor, with Skyhi Ardua fitted, ½ cu. yd. Bucket. Reconditioned engine. Fully repaired and repainted.

1958 J.C.B. Hydra/Loadall 65, modified to 11037. Genuine 1,810 hours. 14 x 30 rears, 750 x 16 front. 24in.-28in. Backacter Bucket.

H. & J. QUICK LTD.,
WILMSLOW ROAD, CHEADLE, CHES.
Telephone: MERcury 2345.

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SOLE DISTRIBUTORS IN 11½ COUNTIES
ULTING MALDON ESSEX
Telephone:
HATFIELD PEVEREL 311
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TRADE SUPPLIED
SALES SPARES SERVICE

RECORD ? THE "THREE IN ONE"... CLIMBING TELESCOPIC TRAVELLING

YEAR AFTER YEAR MILE AFTER MILE

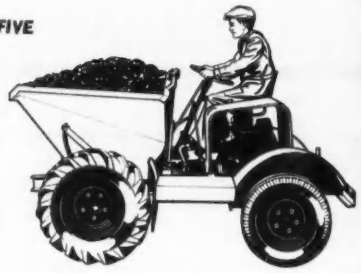
JOHNSON PLANT STAYS RELIABLE

Bringing the famous Johnson reliability and performance to the dumper field is the result of years of research and development. Powerful power units, handy-height skips, multi-speed gear boxes, simple controls, steering that is almost unbreakable—all these features are combined to give you go-anywhere dumpers whose rugged construction ensures years of trouble-free service.

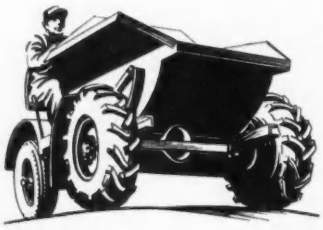
We would be happy to demonstrate any of these dumpers on your site without obligation.

ONE/THIRTY-FIVE

A reliable medium size dumper.



CAPACITY: Wet level 16 cu. ft. Heaped capacity —at 25° — 27 cu. ft.



TWIN/SIXTY-FIVE

The only dumper in its class with a 3¼ ton drive axle and payload of 55 cwt.

CAPACITY: 20.8 cu. ft. wet —40 cu. ft. heaped

ONE/TWENTY

Articulated Chassis Rear Wheel Drive
CAPACITY: Wet level 14 cu. ft. Alternative skip 16 cu. ft. Heaped (both skips) 24 cu. ft. payload 1 ton. Loading height (front lip) 39".

Service and spares within 24 hours

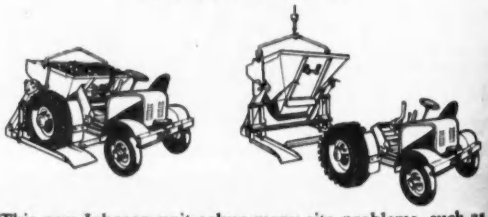
JOHNSON **QUALITY PAYS**

C. H. JOHNSON (Machinery) LIMITED
STOCKPORT · CHESHIRE
Telephone: Stockport 2642/5 Telex: 66-297
Telegrams: "Machinery" Stockport

LONDON SALES AND SERVICE DEPOT:
38/44 Lower Richmond Road, London, S.W.14
Telephone: PROspect 7671

SCOTTISH SALES AND SERVICE DEPOT:
119 Whitefield Road, Govan, Glasgow, S.W.1
Telephone: Govan 2701

JOHNSON TRIP-SKIP BRINGS YOU AUTOMATIC MULTI-SKIP HANDLING WITH STANDARD JOHNSON DUMPERS

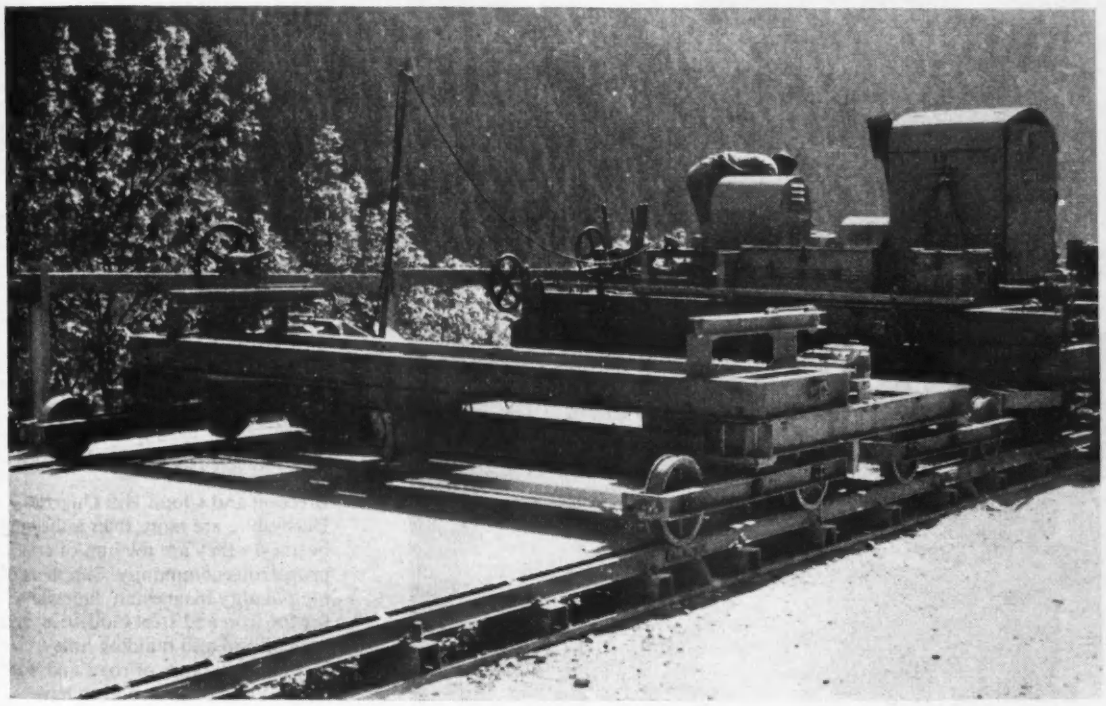


This new Johnson unit solves many site problems, such as speeding the transportation of materials as various as concrete, bricks, spoil or rubble either into or out of the crane's operating radius.

COMPACTORS ENGINEERING LTD.

LOCKFIELD AVENUE, BRIMSDOWN, ENFIELD, MIDDX. TELEPHONE: HOWARD 4063-5

S.G.M.E. SPREADERS & FINISHERS FOR ROADS AND RUNWAYS



S.G.M.E. Concrete Spreaders and Finishers are used all over the world for the construction of concrete roads, runways and factory floors. The illustration shows a Finisher of the latest design working on a Swiss mountain road where the tolerance specified and achieved is 2 mm. in 4 metres. S.G.M.E. Equipment has been used on more than 100 military and civil airfields in the U.K. and on a large number of roads and factory floors up and down the country. Teams of these machines are working at present at London Airport, Gatwick, Manchester-Ringway and Prestwick. They are supplied in many types and sizes and the right machine will always be available to meet even the most exacting specification.

COMPACTORS ENGINEERING LTD.

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A QUARRY COMMUNITY

and Fodens play their part in its Prosperity

1,000,000 miles and still going strong!

This 4-wheeled lorry was bought in 1938 and is still in daily use.

Two six-wheeled dump trucks in use at the quarry.

Breedon and Cloud Hill Quarries Derbyshire are more than a thriving business—they are the hub of a prosperous community. Suppliers of high quality magnesian limestone for the iron and steel industries, also agricultural and building lime including all types of road and wall stone. Fodens are proud to have helped to achieve this prosperity by supplying reliable, economical, high-quality vehicles for every phase of the firm's activities.

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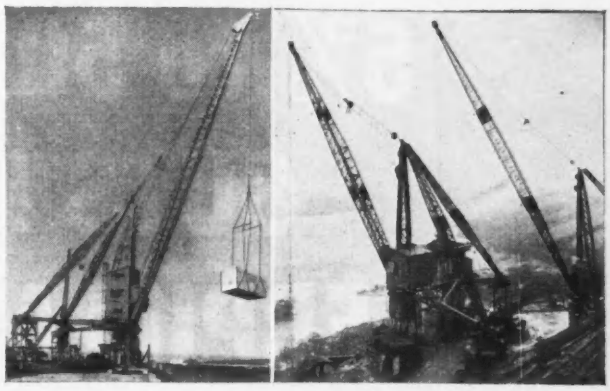

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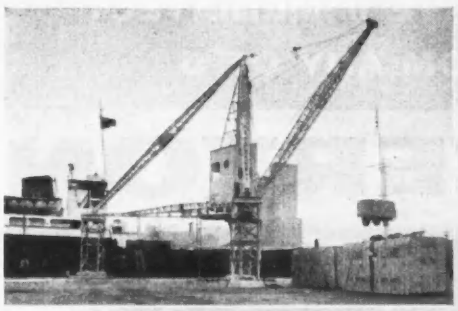

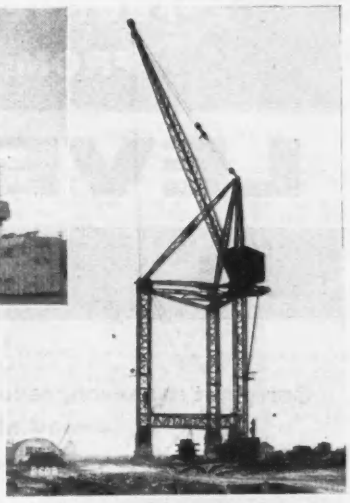

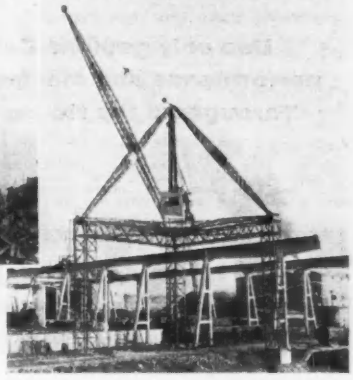

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& CO. LTD.
Maclellan Street, Glasgow, S.1
and at LONDON, BIRMINGHAM & NEWCASTLE

FOR HARD SERVICE AND LONG LIFE THE BUTTERS DERRICK IS UNSURPASSED

5% to 50% CUTS IN CATERPILLAR PARTS PRICES

EFFECTIVE IMMEDIATELY FROM ANY OF 5

LEVERTON

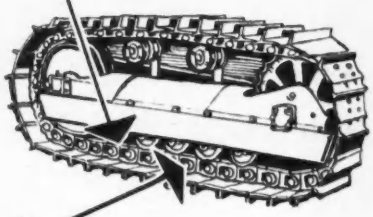
DEPOTS

Constant research, resulting in production refinements aimed at reducing YOUR operating and maintenance costs, makes these price reductions possible on certain items.

Use only genuine Cat parts to ensure the economic performance and maximum output of YOUR machines. Throughout the North, 5 Leverton depots supply your needs promptly.

EXAMPLES

* **Cat D8 9H 5568**
LINK ASSEMBLY
was ~~£310.16.6d.~~
NOW £287.2.6d.



* **Cat D8 8H 5339**
MASTER PIN & RING GROUP
was ~~£4.8.9d.~~
NOW £2.6.6d.

Caterpillar 80 scraper
IH 3051 CUTTING EDGE
was ~~£17.2.9d.~~
NOW £13.19.0d.

LEVERTON
YOUR CATERPILLAR DEALER

LEEDS Gildersome, Leeds. Tel: Morley 4221
SPALDING Spalding, Lincs. Tel: Spalding 3221
WIGAN Wigan Rd., Bryn, Ashton-in-Makerfield. Tel: Ashton-in-Makerfield 7675
NEWCASTLE Team Valley Trading Estate, Gateshead. Tel: Low Fell 78511
ROTHERHAM Meadow Bank Rd., Rotherham. Tel: Rotherham 78269

Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

CONTRACTS

COUNTY BOROUGH OF DEWSBURY.

WESTTOWN REDEVELOPMENT—HIGH STREET IMPROVEMENT.

TENDERS are invited for the CONSTRUCTION of approx. 3,770 sq. yd. of TARMACADAM CARRIAGEWAY and 2,120 sq. yd. of FOOTPATHS in connection with the ABOVE.

Plans and Conditions of Contract may be seen at, and Specification, Bill of Quantities and Form of Tender obtained, on payment of a Two Guineas deposit, from the office of the Borough Engineer and Surveyor, Municipal Buildings, Halifax Road, Dewsbury.

Tenders, in plain sealed envelopes endorsed "High Street Improvement," must be delivered to me by Noon on WEDNESDAY, the 7th September, 1960.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
6th July, 1960.

BOROUGH OF LEOMINSTER.

SEWERAGE AND SEWAGE DISPOSAL SCHEME.

The above-named Corporation invite TENDERS for the EXECUTION of WORKS of SOIL and SURFACE WATER SEWERAGE, comprising the Furnishing and Laying of about 4,000yd. of 6in.-27in. Spun-iron Pipe and 600yd. of 30in.-39in. Spun-concrete Tube, together with necessary Manholes and Storm Overflow Manholes; the Construction of a Sewage Disposal Works, consisting of a Sewage Pumping Station, a Stormwater Pumping Station, Grit Chambers, Primary Settlement Tanks, Stormwater Settlement Tanks, Three Percolating Filters, Humus Tanks, Sludge Drying Beds and the Construction of an Effluent Pipe Line, together with all incidental and appurtenant Works.

The scheme has been designed by the Corporation's Consulting Engineer, F. E. H. SHENTON, ESQ., M.S.E., M.I.P.H.E., of 52 Rochester Row, Westminster, London, S.W.1.

Contractors, who must have had considerable experience in similar work, should send a deposit cheque of £10 10s., made payable to the Leominster Borough Council, after 25th July, to Messrs. Brassey-Edwards and Stowell, Court House, Trowbridge, Wiltshire, who will supply the tendering documents, consisting of Specification, Quantities and Plans of the Work, and who will answer any technical queries in connection with this scheme. The deposit will be returned on receipt of a bona-fide Tender and on return of all printed documents and Plans after the Contract is let.

Tenders, in plain sealed envelopes endorsed "Leominster Sewerage Scheme," must be sent to the undersigned not later than Noon on MONDAY, 5th September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

K. DOWNS,
Town Clerk.

Municipal Offices,
Grange Court,
Leominster,
Herefordshire.
18th July, 1960.

CITY OF MANCHESTER.

TO MANUFACTURERS OF PREFABRICATED, PRESTRESSED OR REINFORCED CONCRETE FENCING.

DAVYHULME SEWAGE WORKS.

TENDERS invited for SUPPLY and ERECTION of approx. 3,400yd. of 5ft. 6in. HIGH PREFABRICATED PRESTRESSED CONCRETE POST and PALE FENCING. Offers for Reinforced Concrete Fencing will be considered.

Tender documents from CITY SURVEYOR, Town Hall, Manchester, 2. Tenders due 29th AUGUST, 1960.

EBBW VALE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

RASSAU HOUSING SITE.

CONSTRUCTION OF ROADS, SEWERS, FOOTWAYS, ETC.

The above-named Council invite TENDERS for the CONSTRUCTION upon the ABOVE HOUSING ESTATE of approx. 29,870 sq. yd. of CARRIAGEWAY, 19,700 sq. yd. of FOOTWAYS, 5,060 lin. yd. of DUAL SEWERS and SEPARATE SEWERS, from 6in. to 33in. dia., and 50 lin. yd. of 72in. dia. CONCRETE CULVERT, together with the usual ancillary Works.

Specification, Bills of Quantities and Form of Tender may be obtained from, and the General Conditions of Contract and Drawings inspected at, the office of the Engineer and Surveyor, MR. J. M. DAVIES, B.Sc., A.M.I.Mun.E., Council Offices, The Walk, Ebbw Vale, Mon., on payment of a deposit of £2 2s., refundable on receipt of a bona-fide Tender.

Tenders to be enclosed in the envelope provided, sealed and delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 17th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

HOWARD J. WILLIAMS,
Clerk of the Council.

District Council Offices,
The Walk,
Ebbw Vale,
Mon.
18th July, 1960.

EAST ELLOE RURAL DISTRICT COUNCIL.

WATER MAIN DISTRIBUTION SCHEME.

CONTRACT NO. 19.

TENDERS are invited for the LAYING of approx. 37,775yd. of 4in. dia. and 3in. dia. ASBESTOS-CEMENT CLASS "B" PIPES, together with Valves, Hydrants and ancillary Works, in various parts of the Rural District.

Bills of Quantities, Specification and Form of Tender may be obtained from H. RIPPIN, ESQ., A.M.I.C.E., A.M.I.Mech.E., A.M.I.W.E., Water Engineer and Manager, at the address below, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Plans of the proposals and the Conditions of Contract (Institution of Civil Engineers Standard, Fourth Edition, January, 1955) may be inspected by appointment at the office of the Engineer.

Completed Tenders, on the form provided, together with all documents, should be enclosed in a plain sealed envelope endorsed "Tender for Distribution Mains," and returned to the undersigned, to be received by Noon on SATURDAY, 3rd September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. C. PYWELL,
Clerk to the Council.

Council Offices,
Mattimore House,
Holbeach,
Spalding,
Lincs.

BEDFORDSHIRE COUNTY COUNCIL.

IPSWICH-WEEDON TRUNK ROAD, A.428.

TURVEY BRIDGE REPAIRS.

TENDERS are invited for REPAIRS to the STONEWORK of the TWO WESTERLY ARCHES of TURVEY BRIDGE and to the Dividing Cutwater, and for Waterproofing the Arch Extrados. Natural matching stonework must be used throughout.

Copies of the Condition of Contract, Specification and Bills of Quantities may be obtained from the County Surveyor, Dents Road, Bedford, on receipt of a deposit of Two Pounds, which will be returned on receipt of a bona-fide Tender and the return of all documents.

Tenders must be delivered to the undersigned on or before FRIDAY, 19th August, 1960, in the envelope provided, together with all documents.

The Contract is subject to the approval of the Ministry of Transport, and the Council do not bind themselves to accept the lowest or any Tender received.

GEORGE BREWIS,
Clerk of the County Council.

Shire Hall,
Bedford.
July, 1960.

ISLE OF ELY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

BIRMINGHAM-GREAT YARMOUTH TRUNK ROAD, A.47.

CONSTRUCTION OF FOOTBRIDGE AT GUYHIRNE.

TENDERS are invited for the CONSTRUCTION of a FOOTBRIDGE, approx. 190ft. long, in Light Structural Steelwork cantilevered out from the side of the existing road bridge at Guyhirne.

Plans, Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the County Surveyor, County Hall, March, Cambs.

Tenders to be delivered to the undersigned, in the envelope provided, not later than Noon on MONDAY, 29th August, 1960.

The County Council do not bind themselves to accept the lowest or any Tender.

R. F. G. THURLOW,
Clerk of the County Council.

County Hall,
March, Cambs.
18th July, 1960.

BOROUGH OF LYMINGTON.

PRIVATE STREET WORKS ACT, 1892.

BARRS AVENUE GROUP.

TENDERS are invited for MAKING-UP BARRS WOOD ROAD, BARRS AVENUE, BROOK AVENUE NORTH, BARRS WOOD DRIVE and MEADOW ROAD, within the Borough of Lymington.

Plans and Conditions of Contract may be inspected at the office of the Borough Engineer, Town Hall, Lymington, from whom copies of the Specification, Bill of Quantities and Form of Tender may be obtained on payment of a sum of £2 2s., which is returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, accompanied by Priced Bills of Quantities in plain sealed envelopes endorsed "P.S.W.—Barrs Avenue Group," must be delivered to the undersigned not later than First Post on MONDAY, 5th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. L. SLATER,
Town Clerk.

Town Hall,
Lymington.

BOROUGH OF PORT TALBOT.

CONSTRUCTION OF SEA WALL—LITTLE WARREN.

TENDERS are invited for the ABOVE SCHEME, which is to be constructed in the form of a Sloped Wall on Beams, all in Reinforced Concrete, together with ancillary works. The wall is approx. 500yd. long, and will require approx. 1,200 cu. yd. of concrete.

Specifications, Bills of Quantities and Form of Tender may be obtained from the Borough Engineer, G. V. GRIFFITHS, A.M.I.C.E., on payment of a deposit of £2 2s. which wil be returned on receipt of a bona-fide Tender not subsequently withdrawn and return of Tender documents.

Plans may be inspected by appointment only at the Borough Engineer's Department.

Completed Tenders, in plain envelopes endorsed "Construction of Sea Wall—Little Warren," to be received by the undersigned not later than Noon, 27th AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
18th July, 1960.

WYCOMBE RURAL DISTRICT COUNCIL.

EXTENSION TO PRINCES RISBOROUGH SEWAGE DISPOSAL WORKS.

The above-mentioned Council invites TENDERS for the EXECUTION OF WORKS, comprising the CONSTRUCTION of SEWAGE DISPOSAL WORKS EXTENSION, consisting of Sedimentation Tanks, Percolating Filters, Humus Tanks, Sludge Digestion Tanks and Drying Beds, Sludge Pumping Stations, Spun-iron Pumping Mains, etc., and other appurtenant works, together with the Re-laying of about 600yd. of 15in. to 6in. Concrete and Stoneware Sewers.

Contractors desirous of tendering are requested to send their names and addresses to MESSRS. D. BALFOUR AND SONS, M.I.C.E., Consulting Engineers, 131 Victoria Street, Westminster, S.W.1, accompanied by a cheque deposit of £10, made payable to the Wycombe Rural District Council, not later than 9th AUGUST, 1960, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and on return of all printed forms and plans after the Contract is let.

It is essential that the contractor shall have had considerable experience in similar work and be prepared to furnish security with an approved society for the fulfilment of the Contract.

Tenders, in plain sealed envelope endorsed "Tender for Princes Risborough Sewage Disposal Works," must be sent to the undersigned by a date to be given by the Engineers.

The lowest or any Tender will not necessarily be accepted by the Council.

L. C. RYSDALE,
Clerk of the Council.

17 High Street,
High Wycombe,
Bucks.

WILTSHIRE COUNTY COUNCIL.

TENDERS invited for the FOLLOWING WORKS:

(a) Tree Felling, Construction of Walls, and Fencing, on Trunk Road A.303, east of B.3092 Junction, Mere.
(b) Tree Felling, Construction of Footpath, and Fencing, at Farm Lane, Rudloe, near Corsham.
(c) Earthworks, Carriageway Widening, Fencing and appurtenant works, at Broad Chalke, Salisbury:
  (i) Primrose Cottage;
  (ii) The Knapp;
  (iii) The Church.

Contractors may apply for either, or all, of items (a), (b) and (c).

Relevant documents obtainable from County Surveyor, County Hall, Trowbridge, on payment of £2 deposit per item, returnable on receipt of a bona-fide Tender. Drawings may be inspected, by appointment, at the above address.

Tenders, in envelopes provided, bearing no name of mark indicating origin, returnable by 5 p.m. on 29th AUGUST, 1960.

P. A. SELBORNE STRINGER,
Clerk of the County Council.

BOROUGH OF ALTRINCHAM.

MAIN SEWERAGE.

CONTRACT NO. 3.

The CORPORATION propose to obtain TENDERS for the CONSTRUCTION of MAIN SEWERAGE WORKS, comprising the Laying of about 4,100yd. of Concrete Tube Sewers varying from 45in. to 9in. in dia., with Manholes and other appurtenant works. The works also include Laying Deep Sewers in wet sand under an important railway junction, the work being carried out in steel sheet piled trench over a length of about 250yd. to the special requirements of the British Transport Commission.

Tenders will only be considered from firms having had similar experience and who have adequate special plant and skilled staff.

Firms desirous of tendering are invited to send full particulars of their experience to the Corporation's Consulting Engineers, D. BALFOUR AND SONS, Consulting Engineers, 131 Victoria Street, London, S.W.1.

The closing date for submission of particulars is 13th AUGUST, 1960.

Contractors will be notified in due course as to the availability of Tender documents. The latest date for the submission of Tenders is 17th OCTOBER, 1960.

E. GRAHAM THOMAS,
Town Clerk.

BOROUGH OF HORNSEY.

CAMPSBOURNE REDEVELOPMENT AREA—STAGE IV.

HOUSING SCHEME NO. 62.

TENDERS are invited for the ERECTION of 53 FLATS and MAISONNETTES in FOUR BLOCKS in MYDDELTON ROAD and CAMPSBOURNE ROAD, Hornsey, N.8.

Particulars and Form of Tender from the Borough Engineer and Surveyor, Town Hall, Hornsey, N.8.

Applications for Tender documents to be received by Noon on FRIDAY, the 12th August, 1960.

Tenders to be submitted by Noon on MONDAY, the 26th September, 1960.

W. B. MURGATROYD,
Town Clerk.

SIDMOUTH URBAN DISTRICT COUNCIL.

SEA OUTFALL.

TENDERS are invited from experienced firms for the LAYING of a 36in. dia. SEWER OUTFALL, extending 1,500ft. seaward of high water, either in Cast-iron on Trestles or in Welded Steel Pipe on the sea bed.

Particulars, on application, by 15th AUGUST, from Messrs. Lewis and Duvivier, 14 Howick Place, London, S.W.1.

ERIC G. HOWARTH,
Clerk of the Council.

Council Offices,
Sidmouth.

AMERSHAM RURAL DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

IMPROVEMENTS TO 22 COUNCIL HOUSES AT PENFOLD COTTAGES, HOLMER GREEN, BUCKS.

TENDERS are invited from experienced builders and plumbers for the INSTALLATION of HOT WATER SYSTEMS and the LAYING of PATENT LINO TILES to EXISTING CONCRETE FLOORS in 22 HOUSES. To 12 of the houses the lining of plaster lath ceilings is also required.

Specifications, Bills of Quantities, General Conditions and Form of Tender may be obtained from MR. J. GODBEHERE, A.M.I.Mun.E., Engineer and Surveyor, Amersham Rural District Council, 42 High Street, Amersham, Bucks., on payment of a sum of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders should be returned to the undersigned not later than 12 Noon on FRIDAY, 12th August, 1960, in a sealed envelope, which will be supplied appropriately endorsed.

The Council does not bind itself to accept the lowest or any Tender.

H. E. BUXTON,
Clerk of the Council.

42 High Street,
Amersham,
Bucks.

DARLINGTON RURAL DISTRICT COUNCIL.

WHESSOE SEWERAGE SCHEME.

TENDERS are invited for the FOLLOWING WORKS, viz.—

The Laying of approx. 1,750yd. 6in. dia. Sewer; 210yd. 6in. dia. Rising Main; Foul and/or Surface Water Drains to 112 Properties; and the Construction of Pumping Station.

Copies of Plans, Specification and Bill of Quantities can be obtained from the Council's Surveyor at 53 Coniscliffe Road, Darlington, on payment of a deposit of Five Guineas, which will only be returned on receipt of a bona-fide Tender.

Tenders, in sealed envelopes, endorsed "Whessoe Sewerage Scheme," must reach me by 9 a.m. on MONDAY, the 5th September, 1960.

Tenders are to be on a fixed-price basis. The Council does not bind itself to accept the lowest or any Tender, and any acceptance of a Tender will be subject to the approval of the Ministry of Housing and Local Government.

J. PATTINSON,
Clerk to the Council.

51 Coniscliffe Road,
Darlington.

CONTRACTS

CITY OF ROCHESTER.

62 FLATS—TROY TOWN REDEVELOPMENT AREA.

TENDERS are invited for the ERECTION of the ABOVE-MENTIONED DWELLINGS.

Conditions of Contract, Bills of Quantities and Form of Tender may be obtained from J. A. PEEL, A.M.I.C.E., M.I.Mun.E., City Surveyor, 66 Maidstone Road, Rochester, on payment of a deposit of £3 3s., which will be refundable on receipt of a bona-fide Tender or on notification of inability to tender, together with the return of the documents.

This Tender is to be a Fixed-price Tender.

Tenders should be returned in the suitably endorsed envelope provided, to the Town Clerk, Guildhall, Rochester, not later than 12 Noon, 6th SEPTEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
18th July, 1960.

CITY OF MANCHESTER.

ANCOATS REDEVELOPMENT AREA.

MILL STREET SITE.

TENDERS are invited for the CONSTRUCTION of 13,210 sq. yd. of CARRIAGEWAY, 2,275 lin. yd. of 9in.-27in. dia. SEWER and CULVERT WORKS, and ancillary works.

Tender documents, returnable by 9.30 a.m. on 29th AUGUST, 1960, from the CITY SURVEYOR (Room 208), Town Hall, Manchester, 2.

BINGHAM RURAL DISTRICT COUNCIL.

WHATTON SEWERAGE EXTENSIONS.

TENDERS are invited from experienced civil engineering contractors for the CONSTRUCTION of about 400yd. of 6in. dia. CONCRETE or STONEWARE PIPE SEWER 10ft. deep.

Plans, Specifications and Bills of Quantities may be seen at the Offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Chartered Civil Engineers, Stanley House, Pelham Road, Nottingham, and copies of the Bill of Quantities may be obtained from them on deposit of Five Guineas (by cheque, payable to the Bingham R.D.C.), which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn and the return of all documents loaned to the contractors, within seven days of notice informing him that a Tender has been accepted.

Tenders, endorsed "Whatton Sewerage," to be delivered in a plain sealed envelope to the undersigned not later than the First Post on 31st AUGUST, 1960.

The lowest or any Tender will not necessarily be accepted.

The work will be subject to the final approval of the Ministry of Housing and Local Government after submission of a revised estimate based on the provisionally accepted Tender.

Unless they have previously carried out work under the supervision of Messrs. Elliott and Brown, contractors must submit with their application the names and addresses of two Engineers for whom they have carried out similar works recently, with brief details of the extent of the contracts.

W. B. BIRCH,
Clerk of the Council.

Council Offices,
Bingham,
Nottingham.
July, 1960.

CLARE RURAL DISTRICT COUNCIL.

KEDINGTON AND GREAT WRATTING.

SEWERAGE AND SEWAGE DISPOSAL.

The Clare Rural District Council invite TENDERS for the EXECUTION of WORKS of SEWERAGE, comprised in the Furnishing and Laying of about 5,800yd. of 9in. and 6in. Stoneware and Spun-iron Pipe Sewers, Manholes, Ventilators, about 2,500yd. of 6in. and 4in. Spun-iron Pumping Mains, Pumping Stations, etc., and the Construction of a Sewage Disposal Works, consisting of Sedimentation Tanks, Percolating Filters, Humus Tank, Feed, Effluent, Sludge and Top Water Pipes, etc., and other appurtenant Works.

Contractors, who must have had considerable experience in similar work and who are desirous of tendering, should send their names and addresses to MESSRS. D. BALFOUR AND SONS, Consulting Engineers, 131 Victoria Street, Westminster, S.W.1, accompanied by a cheque deposit of 10 Pounds, made payable to the Clare Rural District Council, not later than MONDAY, 22nd August, 1960, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and on return of all printed forms and Plans after the Contract is let.

Tenders, in plain sealed envelope endorsed "Tenders for Main Sewerage," must be sent to the undersigned by a date given by the Engineers.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN ALLPRESS,
Clerk to the Council.

Council Offices,
Stonehall,
Clare,
Sudbury,
Suffolk.

(V2367)

CLARE RURAL DISTRICT COUNCIL.

ROADWORKS.

The above Council invite TENDERS for the CONSTRUCTION of ROADWORKS at their HOUSING ESTATE at WESTFIELD, STOKE ROAD, Clare. The Contract consists of the following:—

569 lin. yd. Kerbing, 3,133 sq. yd. Carriageway, 1,195 sq. yd. Footpaths, together with Surface Water Drainage and certain ancillary Works.

Plans, Conditions of Contract, Bills of Quantities and the Specification may be seen at the Council Offices, Stonehall, Clare, or at the office of the County Surveyor to the West Suffolk County Council, Manor House, Bury St. Edmunds, from whom copies of the Contract documents may be obtained.

Tenders, which must be enclosed in the envelope provided, endorsed "Stoke Road Estate Roadworks—Contract No. 2," but not bearing any mark indicating the sender, are to be delivered to the undersigned not later than 10 a.m. on 5th SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN ALLPRESS,
Clerk of the Council.

Clare Rural District Council Offices,
Stonehall,
Clare,
Sudbury,
Suffolk.

CONTRACTS

COUNTY BOROUGH OF HUDDERSFIELD.

NORTHGATE, ALMONDBURY, REDEVELOPMENT.

Contractors are invited to submit an ALL-TRADES TENDER, on a FIRM-PRICE BASIS, for the ERECTION of SIX SHOPS, 14 DWELLINGS, EIGHT GARAGES and a WORKSHOP on the ABOVE SITE.

Bills of Quantities and Form of Tender may be obtained, and R.I.B.A. Form of Contract inspected at, the Borough Architect's Office, High Street Buildings, Huddersfield. Deposit £2 2s., refunded upon receipt of a Tender not subsequently withdrawn.

Sealed Tenders, in the envelope provided, to be delivered to the undersigned not later than 10 a.m. on THURSDAY, the 15th September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.
July, 1960.

BOROUGH OF HARROW.

TENDERS are invited for REPAIRING and RESURFACING WHITCHURCH LANE (BUCKINGHAM ROAD (western end) to HONEYPOT LANE) in HOT-ROLLED ASPHALT.

Drawings and Conditions of CONTRACT may be inspected at the office of, and a copy of the Form of Tender, Specification and Bills of Quantities obtained, on application to the Borough Engineer, at the Council Offices, 48 Uxbridge Road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque made payable to the Harrow Borough Council, returnable where a bona-fide Tender reaches me within the prescribed time.

Tenders, on prescribed forms, enclosed in a plain envelope bearing no indication of the sender and endorsed "Tender—Repairing and Resurfacing—Whitchurch Lane," to be delivered to my office not later than 10 a.m. on TUESDAY, 16th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. H. PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middlesex.

BOROUGH OF HARROW.

TENDERS are invited for REPAIRING and RESURFACING ELM PARK ROAD (UXBRIDGE ROAD to WEST END LANE) in HOT-ROLLED ASPHALT.

Drawings and Conditions of CONTRACT may be inspected at the office of, and a copy of the Form of Tender, Specification and Bills of Quantities obtained, on application to the Borough Engineer, at the Council Offices, 48 Uxbridge Road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque made payable to the Harrow Borough Council, returnable where a bona-fide Tender reaches me within the prescribed time.

Tenders, on prescribed forms, enclosed in a plain envelope bearing no indication of the sender and endorsed "Tender—Repairing and Resurfacing—Elm Park Road," to be delivered to my office not later than 10 a.m. on TUESDAY, 16th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. H. PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middlesex.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The HOUSING COMMITTEE of the CORPORATION are prepared to receive TENDERS from specialist firms for the SUPPLY and INSTALLATION of TWO AUTOMATIC PASSENGER LIFTS in each of the seven 15-storey Blocks of Flats, as follows: One Block at POTTERY BANK; Six Blocks at SCOTSWOOD ROAD (Hawes Street).

Specification, Form of Tender and Drawings may be obtained on application in writing to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, where Conditions of Contract may be seen.

Sealed Tenders must reach the City Architect not later than 10 a.m. on WEDNESDAY, the 31st August, 1960. No Tender will be received except in the official envelope provided, which must not bear any name or mark indicating the sender.

The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
26th July, 1960.

KIRKBY URBAN DISTRICT COUNCIL

PRIVATE STREET WORKS.

NORTH PARK ROAD AND SOUTH PARK ROAD.

TENDERS are invited for the ABOVE WORK from contractors experienced in the MAKING-UP of PRIVATE STREETS. The Works in each case consist mainly of the Provision of approx. 1,400 sq. yd. of Carriageway and a similar area of Tarmacadam Footpath, together with the usual incidentals.

Plans and Sections may be inspected during normal office hours, and Contract documents obtained from the Engineer and Surveyor at the address shown below, upon deposit of the sum of £2 2s., which will be returned upon receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Private Street Works," must be received by the undersigned not later than 25th AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. BYRON,
Clerk of the Council.

Kirkby Hall,
Hall Lane,
Kirkby,
Near Liverpool.

BARNOLDSWICK URBAN DISTRICT COUNCIL.

The above Council invites TENDERS for MAKING-UP SMITH STREET, Barnoldswick, under the Highways Act, 1959.

Specification and Form of Tender may be obtained from the Engineer and Surveyor, MR. PETER TURNER, A.M.I.Mun.E., 32 Church Street, Barnoldswick, via Colne, Lancs. (Telephone 2138).

Tenders, in plain envelopes, containing no name or mark indicating the sender and endorsed "Tender—Private Street Works," should be received by the undersigned not later than Noon on SATURDAY, the 20th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. WILKINSON,
Clerk of the Council.

Town Hall,
Barnoldswick,
Via Colne,
Lancs.

CONTRACTS

METROPOLITAN BOROUGH OF WANDSWORTH.

RECONSTRUCTION OF SEWERS.

TENDERS invited for RECONSTRUCTION of (a) 350yd. of 9in.-15in. SEWERS and CONSTRUCTION of FOUR MANHOLES at DAFFORNE ROAD, S.W.17; and (b) 290yd. of 12in. SEWER and CONSTRUCTION of FIVE MANHOLES at BENDEMEER ROAD, S.W.15.

Tender documents, obtainable from the Borough Engineer on receipt of £2 2s. deposit for each Contract (returnable on receipt of a bona-fide Tender not subsequently withdrawn), must reach me by 10 a.m., 31st AUGUST, 1960.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

BOROUGH OF HARROGATE.

PRIVATE STREET IMPROVEMENT WORKS.

TENDERS are invited for the MAKING-UP of ONE or MORE of the FOLLOWING PRIVATE STREETS:—

(a) Lascelles Road, 320 lin. yd.
(b) Lascelles Grove, 130 lin. yd.
(c) Florence Road, 260 lin. yd.
(d) Margaret Road (Part), 90 lin. yd.

The work comprises Kerbing and Flagging to the Footpaths and Surfacing the Carriageway in Tarmacadam and Fine Cold Asphalt.

Plans and Conditions of Contract may be inspected at the Office of the Borough Engineer, from whom the Specification, Bills of Quantities and Forms of Tender may be obtained.

Sealed and endorsed Tenders, on the official form, together with the priced Bills of Quantities, are to be delivered, in the envelope provided, to the Borough Engineer not later than 10 a.m. on THURSDAY, 1st September, 1960.

The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS,
Borough Engineer.

Municipal Offices,
Harrogate.
21st July, 1960.

BOROUGH OF MORLEY.

WATER TREATMENT PLANT.

CONTRACT NO. 1—CIVIL AND BUILDING WORKS.

TENDERS are invited for the CONSTRUCTION of a WATER TREATMENT PLANT at WITHENS CLOUGH, YORKSHIRE, for the Morley Corporation. The Site is located in the Hebden Royd Urban District off the Mytholmroyd-Littleborough Road, approx. nine miles west of Halifax, Yorkshire.

The Work comprises a Reinforced Concrete Substructure, Reinforced Concrete Tank, Steel-framed Brick and Stone Superstructure, together with Water Mains and ancillary Works on Site.

Civil engineering and building contractors wishing to Tender for this work should apply to the Corporation's Consulting Engineers, MESSRS. JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas, made payable to the Morley Corporation, such deposit to be refunded on receipt of a bona-fide Tender and the return of all documents and Drawings.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned not later than 12 Noon on 29th AUGUST, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender they may receive.

E. V. FINNIGAN,
Town Clerk.

Town Hall,
Morley,
Yorks.

BOROUGH OF NEWBURY.

BATH ROAD HOUSING ESTATE FENCING.

TENDERS are invited for the SUPPLY and ERECTION of approx. 840 lin. yd. CHAIN LINK FENCING, 3ft. 6in. high, on Concrete or Oak Posts with Wooden Gates.

Specification and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose office Plans and General Conditions may be inspected.

Sealed Tenders, endorsed "Bath Road Fencing," must be delivered to the undersigned not later than THURSDAY, 1st September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN,
Town Clerk.

CITY OF ST. ALBANS.

MAKING-UP OF GUILDFORD ROAD AND HEDLEY ROAD.

TENDERS are invited for the MAKING-UP of the ABOVE STREETS, involving the Construction of 5,860 sq. yd. of Carriageway in Lean-mix Concrete with Bituminous Surfacing, 2,800 sq. yd. of Artificial Stone Paving and 450 lin. yd. of 9in. S.W. Sewer.

Tender documents may be obtained from, and Plans inspected at, the City Engineer and Surveyor's office, 16 St. Peter's Street, St. Albans.

Tenders should be returned to the undersigned, enclosed in the envelope provided and bearing no mark indicating the sender, not later than Noon on 17th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) B. V. ENTWISTLE,
Town Clerk.

38 St. Peter's Street,
St. Albans,
Herts.

CITY OF BATH.

TENDERS are invited for the SUPPLY of 250 DUSTBINS and LIDS.

Forms of Tender, which may be obtained from the City Engineer, Guildhall, Bath, should be returned to the undersigned on or before 3rd SEPTEMBER, 1960.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.
19th July, 1960.

BRIERFIELD URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959.

TENDERS are invited from experienced public works contractors for the MAKING-UP, under the HIGHWAYS ACT, 1959, of THREE PRIVATE STREETS within this District. Specification and Forms of Tender may be obtained from the Surveyor, Town Hall, Brierfield.

The lowest or any Tender will not necessarily be accepted. Tenders, in a plain sealed envelope endorsed "Private Street Works," must be received by the CLERK TO THE COUNCIL, Town Hall, Brierfield, not later than SATURDAY, 20th August, 1960.

CONTRACTS

GOVERNMENT OF NORTHERN IRELAND.

MINISTRY OF HOME AFFAIRS.

TENDERS are invited for the SUPPLY of UNIFORM CLOTH for the Constabulary Forces. Forms of Tender can be obtained on written application to the Secretary, MINISTRY OF HOME AFFAIRS, Stormont, Belfast, 4.
Preference will be given to firms on the King's National Roll.

GLAMORGAN COUNTY COUNCIL.

TENDERS are invited for the LAYING of PLASTIC WHITE LINES.
Copies of Specification, together with the Bill of Quantities, can be obtained from E. JOHN POWELL, C.B.E., M.I.C.E., M.I.Mun.E., County Surveyor, Glamorgan County Hall, Cardiff.
Tenders must be addressed to the Clerk of the County Council, County Hall, Cardiff, and received not later than THURSDAY, 11th August, 1960, in a plain sealed envelope, endorsed "Laying of Plastic White Lines."
The Council does not bind itself to accept the lowest or any Tender.

RICHARD JOHN,
Clerk of the County Council.

Glamorgan County Hall,
Cardiff.
25th July, 1960.

GLAMORGAN COUNTY COUNCIL.

TENDERS are invited for the SUPPLYING and LAYING of HOT ROLLED ASPHALT.
Copies of Specification, together with the Bill of Quantities, can be obtained from E. JOHN POWELL, C.B.E., M.I.C.E., M.I.Mun.E., County Surveyor, Glamorgan County Hall, Cardiff.
Tenders must be addressed to the Clerk of the County Council, County Hall, Cardiff, and received not later than THURSDAY, 11th August, 1960, in a plain sealed envelope endorsed "Hot Rolled Asphalt."
The Council does not bind itself to accept the lowest or any Tender.

RICHARD JOHN,
Clerk of the County Council.

Glamorgan County Hall,
Cardiff.
25th July, 1960.

BOROUGH OF MITCHAM.

PHIPPS BRIDGE REDEVELOPMENT SCHEME.

CONTRACT NO. 4.

STAGE I—HOUSING.

TENDERS are invited for the CONSTRUCTION of the FOLLOWING:—
21 Houses.
8 Flats in Two-storey construction.
24 Flats in Four-storey construction.
31 Flats in Five-storey construction.
73 Flats in 11-storey construction.
Contractors who wish to tender upon Bills of Quantities should submit their names not later than 12 Noon on SATURDAY, 20th August, 1960, to the Borough Engineer and Surveyor, Town Hall, Mitcham, at whose Office the Drawings and General Conditions of Contract may be inspected during normal office hours.
Tenders must be delivered to the undersigned, in the envelope provided, not later than First Post on WEDNESDAY, 5th October, 1960.
The Council do not bind themselves to accept the lowest or any Tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham.
20th July, 1960.

BOROUGH OF HARWICH.

ROAD IMPROVEMENTS—WICK LANE, DOVERCOURT.

Contractors wishing to TENDER for the ABOVE WORKS should notify the Borough Engineer and Surveyor, Town Hall, Harwich, by THURSDAY, 11th August, 1960.
The Contract will include Kerbing, Carriageway Foundation, Surface Water Sewer, and incidental works. The length of the road is approx. 1,000ft.

T. B. A. MOONLIGHT,
Town Clerk.

Town Hall,
Harwich.
29th July, 1960.

BOROUGH OF BRIGHOUSE.

BUS PASSENGER SHELTERS.

TENDERS are invited for the SUPPLY and DELIVERY of THREE CANTILEVER-TYPE BUS PASSENGER SHELTERS, each approx. 30ft. long and constructed of non-corrosive alloy or similar material which would not require painting.
Particulars of shelters required and Forms of Tender may be obtained from the Borough Engineer, Commercial Street, Brighouse.
Tenders to be endorsed "Bus Passenger Shelters," and must be delivered to the undersigned not later than the 31st AUGUST, 1960.

JOHN R. LIDDLE,
Town Clerk.

Town Hall,
Brighouse.
19th July, 1960.

LEEDS CITY POLICE.

The Watch Committee invite TENDERS for the SUPPLY of POLICE UNIFORM CLOTHING, CAPS, HELMETS, SHIRTS, BLOUSES, COLLARS and TIES (Men's and Women's), GLOVES, GABERDINE RAIN-COATS and MACKINTOSHES, for the year 1961.
Particulars as to quantities required, the date on which the goods have to be delivered and the Forms of Tender, may be had on application to the undersigned.
Styles of garments may be seen at the Police Clothing Stores, Oxford Row, Park Lane, Leeds, 1.
Tenders must be delivered at the Town Clerk's Department, Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on the 29th AUGUST, 1960, and must be enclosed in a plain sealed envelope bearing no name or mark to identify the sender, and addressed to Chairman of the Clothing Committee, c/o of Town Clerk, Room 57, Civic Hall, Leeds, 1, and endorsed "Tender for Police Clothing."

A. J. PATERSON,
Chief Constable.

Chief Constable's Office,
Municipal Buildings,
Leeds, 1.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS to KITCHEN DINING ROOM and STORES at ST. JOSEPH'S POLICE BUILDINGS, LONGSIGHT. Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by AUGUST 24th.

CONTRACTS

NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the SUPPLY, during the summer of 1961, of GROUND ROCK SALT for use on roads. Interested contractors should apply for Tender Forms to the COUNTY SURVEYOR, County Hall, Northallerton, Yorks. The closing date for the receipt of Tenders is the 19th SEPTEMBER, 1960.

BOROUGH OF HIGH WYCOMBE.

HAMPDEN ROAD.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of PART of HAMPDEN ROAD (approx. length 164 lin. yd.). The Works involve the Re-laying of Existing Granite Kerbs, Construction of a Tarmacadam Carriageway and Footpaths, etc.
Conditions of Contract and Drawings may be inspected on any day (Saturdays excepted) during normal office hours, and the Specification, Bill of Quantities and Form of Tender may be obtained on application to the Borough Engineer and Surveyor, Municipal Offices, High Wycombe, upon the deposit of Two Guineas, which sum will be refunded on receipt of a bona-fide Tender.
Tenders, in plain sealed envelopes endorsed "Tender for Hampden Road—Private Street Works," must be delivered to the undersigned by not later than Noon on FRIDAY, 19th August, 1960.
The Council do not bind themselves to accept the lowest or any Tender.

J. A. PARKINSON,
M.A., A.M.I.C.E.,
Borough Engineer and Surveyor

LLANDUDNO URBAN DISTRICT COUNCIL.

NORTH SHORE COAST PROTECTION WORKS.

The Llandudno Urban District Council invite TENDERS for the CONSTRUCTION of REINFORCED CONCRETE COAST PROTECTION WORKS.
These works comprise:—
(a) The Construction of 304yd. of Reinforced Stepped Sea Wall.
(b) The Construction of Four Timber Groynes.
(c) The Reconstruction of the Lifeboat Slipway.
(d) The Driving of 89 tons of Steel Sheet Piling.
The Drawings may be inspected and copies of the Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained during usual office hours at the Offices of the Engineer and Surveyor to the Council, Town Hall, Llandudno.
Contractors will be required to furnish details of similar work which they have carried out.
Tenders should be delivered to the Clerk of the Council, Town Hall, Llandudno, in plain sealed envelopes, endorsed "Tender for North Shore Coast Protection Works," not later than MONDAY, 22nd August, 1960.
The Council do not bind themselves to accept the lowest or any Tender.

J. A. EDWARDS, B.Eng.,
A.M.I.C.E., M.I.Mun.E., A.M.T.P.I.,
Engineer and Surveyor.

Town Hall,
Llandudno.
22nd July, 1960.

BRIDGE-BLEAN RURAL DISTRICT COUNCIL.

(1) CONSTRUCTION OF ROADS AND SEWERS—SHALMSFORD STREET, CHARTHAM.
(2) MODIFICATION OF SEWAGE DISPOSAL WORKS—CHARTHAM.

TENDERS are invited for the FOLLOWING WORKS:
CONTRACT NO. 1.—The Construction of approx. 970 sq. yd. of Tarmacadam Carriageway and 100yd. of 6in. dia. Foul Sewers, together with Surface Water Drains and incidental works.
CONTRACT NO. 2.—The Modification of the Sewage Disposal Works, consisting of Alterations to the existing Tanks, Construction of a Store, Paths, Access Road, and incidental works.
Tender documents may be obtained from the Engineer and Surveyor at the undermentioned address, where the General Conditions of Contract may also be inspected during normal business hours. A deposit of £2 2s. will be required in respect of the documents for Contract No. 1, which will be refunded only upon receipt of a bona-fide Tender and the return of all documents other than one copy of the Bills of Quantities and Form of Tender, which may be retained.
Tenders, in separate sealed envelopes endorsed either "Contract No. 1—Roads and Sewers, Chartham," or "Contract No. 2—Modification of Sewage Works, Chartham," must reach the undersigned by not later than 12 Noon on WEDNESDAY, the 7th September, 1960, and Tenders for Contract No. 1 must be accompanied by one copy of the priced Bills of Quantities
The Council do not bind themselves to accept the lowest or any Tender.

I. F. SOILLEUX,
Clerk of the Council.

41 Old Dover Road,
Canterbury, Kent.
3rd August, 1960.

BATHAVON RURAL DISTRICT COUNCIL.

CORSTON AND NEWTON ST. LOE SEWERAGE SCHEME.

FIXED-PRICE TENDERS are invited from experienced public works contractors for the CONSTRUCTION of approx. 4,653 lin. yd. of 6in. dia., and 416 lin. yd. of 9in. dia. GLAZED STONEWARE PIPE SEWERS with necessary Manholes and appurtenant Works in the Parishes of CORSTON and NEWTON ST. LOE, together with the CONSTRUCTION of a SEWAGE DISPOSAL WORKS, comprising Screen Chamber, Two Upward Flow Primary Settlement Tanks, Two Circular Filters, Two Humus Tanks, and Six Sludge Beds, together with a Small Pump House, in the Parish of CORSTON.
The General Conditions of Contract and Specification, Bills of Quantities and Form of Contract may be obtained from the Engineer and Surveyor, Council Offices, Westgate Buildings, Bath, where the Drawings may be inspected on and after the 10th AUGUST, 1960, on payment of Three Guineas as a deposit, to be refunded after receipt of a bona-fide Tender and the return of all documents.
The Tender is to be delivered, in the envelope provided, to the undersigned by not later than 12 o'clock Noon on WEDNESDAY, the 7th September, 1960.
The Council do not bind themselves to accept the lowest or any Tender.

S. G. FOXTON PRICE,
Clerk of the Council.

Council Offices,
Westgate Buildings,
Bath.
August, 1960.

CONTRACTS

COUNTY OF CORNWALL.

NOTICE is hereby given of the intention to LET SEPARATELY the SUB-CONTRACTS for (a) STRUCTURAL STEELWORK, and (b) METAL WINDOWS and DOORS in connection with the ERECTION of a NEW COUNTY SECONDARY SCHOOL at ST. STEPHENS-IN-BRANNEL.
Applications are invited for permission to Tender for these Sub-Contracts, and should be made to the County Architect, County Hall, Truro, not later than SATURDAY, 20th August, 1960, from which a selected number of firms will be invited to Tender. The closing date for receipt of Tenders will be notified when the documents are despatched.
The lowest or any Tender will not necessarily be accepted, nor will the County Council pay to contractors any fees or expenses incurred in the preparation of Tenders.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
22nd July, 1960.

BANFF COUNTY COUNCIL.

PERTH-ABERDEEN-INVERNESS TRUNK ROAD, ROUTE A.98.

DUFF HOUSE DIVERSION.

TENDERS are invited for the CONSTRUCTION of a BY-PASS, approx. 700yd. long, through DUFF HOUSE GROUNDS, Banff. The Contract includes Earthworks (50,000 cu. yd.), Drainage, Bottoming and Surfacing of Carriageway, Footpaths, Fencing and ancillary Works.
Contract documents may be obtained from the County Road Surveyor, County Buildings, Sandyhill Road, Banff, where Contract Drawings may be inspected during normal office hours.
Application for Contract documents must be accompanied by a deposit of Five Guineas, returnable on receipt of a bona-fide Tender.
Sealed Tenders, endorsed "Duff House Diversion," should be lodged with the COUNTY CLERK, Banff, not later than 10 a.m. on 29th AUGUST, 1960.

COUNTY BOROUGH OF BURY.

TENDERS invited for ERECTION of 76 DWELLINGS on KILLON STREET and PRICE STREET HOUSING SCHEME.
Bills of Quantities and General Conditions from Borough Engineer, Town Hall, Bury, on deposit of £2, returnable on receipt of bona-fide Tender.
Tenders, enclosed in envelope provided, must reach me by 22nd AUGUST, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
26th July, 1960.

CITY OF BRADFORD.

SEWAGE DEPARTMENT.

NORTH BIERLEY SEWAGE WORKS.

EXTENSIONS TO EXISTING SLUDGE LAGOON.

TENDERS are invited for the WORK of EXTENDING the CAPACITY of an EXISTING SLUDGE LAGOON at the CORPORATION'S NORTH BIERLEY SEWAGE WORKS. The Contract will include the Excavating of approx. 2,200 cu. yd. of Spoil Material on the Site and the Utilisation of the Excavated Material to increase the height of the existing Earth Retaining Banks to the Sludge Lagoon.
Copies of the Form of Tender, Conditions of Contract, Specification and Drawings, may be obtained from the Sewage Works Engineer and Manager, Esholt Hall, near Shipley, Yorkshire.
Tenders, in plain sealed envelopes, bearing no indication of the name of the sender and endorsed "Sewage Department—North Bierley Sewage Works—Extensions to Existing Sludge Lagoon," must be received by the undersigned not later than 9 a.m. on MONDAY, 22nd August, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

EAST BARNET URBAN DISTRICT COUNCIL.

CONSTRUCTION OF A BLOCK OF 18 DWELLINGS FOR ELDERLY PEOPLE.

CONTRACT NO. 930.

FIXED-PRICE TENDERS are invited for the ERECTION of a TWO-STOREY BLOCK of 18 SINGLE-ROOM DWELLINGS, WARDEN'S FLAT, and incidental works, at BULWER ROAD, New Barnet.
Forms of Tender, Bills of Quantities, etc., may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender. Drawings are available for inspection at the Town Hall.
Tenders, sealed in the envelopes provided, must be received by not later than FRIDAY, the 9th September, 1960.
The lowest or any Tender will not necessarily be accepted.

WHITTLESEY URBAN DISTRICT COUNCIL.

SEWAGE DISPOSAL WORKS EXTENSIONS.

CONTRACT NO. 8.

TENDERS are invited, on a FIXED-PRICE BASIS, for the CONSTRUCTION of EXTENSIONS to the COUNCIL'S EXISTING SEWAGE DISPOSAL WORKS, including the Modification of Certain Existing Units.
Contractors desirous of tendering may obtain copies of the Form of Tender, General Conditions, Specification and Bill of Quantities from the office of the Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN, 82 Victoria Street, Westminster, S.W.1, upon deposit of Five Guineas (cheque, made payable to the Whittlesey Urban District Council), which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.
Drawings may be inspected at the offices of the Consulting Engineers or at the office of the Surveyor to the Council, Council Offices, Whittlesey, any day during ordinary office hours.
Tenders, endorsed "Tender—Whittlesey Drainage—Contract No. 8," in plain sealed envelopes, not bearing any name or mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 31st August, 1960.
The Council does not bind itself to accept the lowest or any Tender.

H. KEWISH,
Clerk of the Council.

Council Offices,
Whittlesey,
Near Peterborough.
3rd August, 1960.

CONTRACTS

COUNTY OF KINCARDINE.

MARYKIRK-FETTERCAIRN-BANCHORY ROAD, ROUTE B.974.

RECONSTRUCTION OF CLATTERIN' BRIG.

TENDERS are invited, on a FIXED-PRICE BASIS, for the RECONSTRUCTION of ABOVE BRIDGE, approx. three miles north of Fettercairn.

The Work comprises Replacement of existing 14ft.-span Masonry Arch Bridge, with a 14ft.-span Masonry-faced Reinforced Concrete Arch Bridge, with Improvement of the Alignment of the Approaches, and other ancillary Works.

Forms of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained from the County Road Surveyor, Viewmount, Stonehaven, at whose office copies of the Drawings can be seen.

An Engineer will meet intending offerers on the site at 11 a.m. on Monday, 8th August, to point out the proposed works.

Sealed Tenders, endorsed "Reconstruction of Clatterin' Brig," must be loged with the COUNTY CLERK, 33 Evan Street, Stonehaven, by 12 Noon on 24th AUGUST.

ISLE OF ELY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

STRENGTHENING AND REPAIR OF EUXIMOOR BRIDGE, CHRISTCHURCH.

TENDERS are invited for the STRENGTHENING and REPAIR of this STEEL THROUGH-GIRDER BRIDGE of 55ft. span x 12ft. wide, which involves the Addition of Struts and Rakers to the Girders, a new Reinforced Concrete Deck Slab and a Concrete Face to the existing Brick Abutments and Wing Wall.

Plans, Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the County Surveyor, County Hall, March, Cambs.

Tenders to be delivered to the undersigned, in the envelope provided, not later than Noon on MONDAY, 29th August, 1960.

The County Council do not bind themselves to accept the lowest or any Tender.

R. F. G. THURLOW,
Clerk of the County Council.

County Hall,
March, Cambs.

BOROUGH OF ELLESMERE PORT.

CONTRACT NO. 302.

RED LION LANE IMPROVEMENT SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 1,000 sq. yd. of PITCHED and BITUMINOUS MACADAM CARRIAGEWAY; 700 sq. yd. of FOOT-PATHS; and 70yd. of 18in. dia. SEWERS; together with ancillary works.

Contract documents obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port, on and after 8th AUGUST, 1960.

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by Post by not later than 5 p.m. on MONDAY, the 22nd August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,
Town Clerk.

BOROUGH OF WORKSOP.

FIRM-PRICE TENDERS are invited from bona-fide building contractors for the ALTERATION and ADDITION to PART of PREMISES, 8 and 10 POTTER STREET, Worksop, to form Public Offices and Mayoral Chambers.

Copies of the Plan and Specification may be obtained from the Borough Engineer, Park House, Worksop, upon payment of a deposit of £3 3s., which will be refunded upon receipt of a bona-fide Tender and the return of all documents supplied.

Tenders, in sealed envelopes endorsed "Public Offices," must reach the undersigned not later than Noon on MONDAY, 12th September, 1960.

The lowest or any Tender will not necessarily be accepted.

RUSSELL C. PHARAOH,
Town Clerk.

Town Hall,
Worksop.
26th July, 1960.

URBAN DISTRICT COUNCIL OF EAST BARNET.

HIGHWAYS ACT, 1959—SECTION 174.

CONTRACT NO. 931.

MAKING-UP OF LATIMER ROAD (PART).

FIXED-PRICE TENDERS are invited for ROAD-WORKS, comprising the Construction of approx. 720 super. yd. of Carriageway with 3in. Bituminous Macadam Surface; 360 super. yd. Artificial Stone Paved Footways; together with ancillary works, including 90 lin. yd. 6in. dia. Surface Water Sewer.

Forms of Tender, Supplementary Conditions of Contract, Specification and Bills of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., upon payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than MONDAY, 29th August, 1960.

The lowest or any Tender will not necessarily be accepted.

FORTH ROAD BRIDGE.

CONTRACT NO. 4.

TENDERS are invited from experienced contractors for the CONSTRUCTION of the APPROACH VIA-DUCTS of the ABOVE BRIDGE. This work will include: (1) Piers and Foundations; (2) Abutments; (3) Deck, including Girders and Roadway.

Copies of the Contract documents may be obtained from the Consulting Engineers, MESSRS. MOTT, HAY AND ANDERSON, 9 Iddesleigh House, Caxton Street, Westminster, London, S.W.1, on payment of a deposit of £10 by cheque made payable to the Forth Road Bridge Joint Board. The deposit will be repayable when a bona-fide Tender has been received. Prints of the Contract Drawings may also be obtained at the tenderer's expense from the Consulting Engineers.

Tenders must be sent in sealed plain cover marked "Tender for the Forth Road Bridge Contract," and addressed to the Clerk, The Forth Road Bridge Joint Board, City Chambers, Edinburgh, 1, so as to be received there not later than 14th OCTOBER, 1960.

The Joint Board do not bind themselves to accept the lowest or any Tender.

W. BORLAND,
Clerk to The Forth Road Bridge Joint Board.

CONTRACTS

BOROUGH OF DARTFORD.

GROUP "A" STREET LIGHTING—TOWN CENTRE APPROACH ROADS.

TENDERS are invited for the SUPPLY and ERECTION of 91 COMPLETE LIGHTING UNITS, comprising 25ft. Reinforced Concrete Columns and 400-W MBF/U Lamps and Lanterns. The work includes Removal of existing Lighting Equipment.

The Form of Tender and other documents can be obtained on application to the undersigned upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents supplied, other than one copy of the Bill of Quantities.

Tenders, in a plain sealed envelope marked "Street Lighting—Town Centre Approach Roads," but bearing no other mark or indication of the tenderer, must be received by me not later than 12 Noon of TUESDAY, the 6th of September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

THOMAS ARMSTRONG,
Town Clerk.

Council Offices,
Dartford.

BOROUGH OF DARTFORD.

PRIVATE STREET WORKS.

MAKING-UP OF PART OF SUMMERHOUSE DRIVE.

TENDERS are invited for MAKING-UP PART of SUMMERHOUSE DRIVE, 830ft. in length, to an average width of 40ft. The works will include Site Excavation and Regulation of Formation, Carriage-way Construction with Hardcore and Machine-laid Bitumen Macadam, Kerbing, Channelling, Precast Concrete Paving, Surface Water Gullies and Connections.

The Form of Tender and other documents can be obtained on application to the undersigned upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents other than one copy of the Bills of Quantities.

The Tender, in a plain sealed envelope endorsed "Making-up of Summerhouse Drive," but bearing no mark or indication of the tenderer, must be delivered to me not later than 12 Noon on TUESDAY, the 6th of September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

THOMAS ARMSTRONG,
Town Clerk.

Council Offices,
Dartford.

BOROUGH OF WREXHAM.

HOLT STREET IMPROVEMENT—MARKET STREET TO FARNDON STREET.

FIXED-PRICED TENDERS are invited for the WIDENING and RECONSTRUCTION of the ABOVE STREET.

Drawings and General Conditions of Contract may be inspected at, and Specification, Bills of Quantities obtained, from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in the sealed envelope provided, must be delivered to the undersigned not later than 12 Noon, 15th AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
July, 1960.

BOROUGH OF GILLINGHAM.

PRIVATE STREET WORKS—KINGSWAY.

TENDERS are invited for the MAKING-UP of KINGSWAY, the Private Street Works consisting of the Construction of approx. 3,127 sq. yd. of Carriageway with Tarred and Bituminous Macadam Surfacing with Hardcore Foundation; 1,067 sq. yd. of Slab Paving; 11 Soakaways, together with Gullies and other ancillary works.

Applications for copies of the Specification, Bills of Quantities and Form of Tender should be addressed to the Borough Engineer, Municipal Buildings, Gillingham, accompanied by a deposit cheque for £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in a plain sealed envelope endorsed "Private Street Works—Kingsway," must be delivered to the undersigned by not later than the First Post on MONDAY, 22nd August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.
22nd July, 1960.

CITY OF LEICESTER.

CHECKETTS ROAD IMPROVEMENT (B.6416).

TENDERS are invited from contractors with suitable experience for the RECONSTRUCTION and ASPHALT SURFACING of approx. 690ft. of Checketts Road, together with the PROVISION of STORMWATER SEWERS, and ancillary works.

Full details and Forms of Tender are obtainable from the undersigned on payment of One Guinea, refundable on receipt of a bona-fide Tender.

Tenders to be returned in the official envelope by 2.30 p.m. on MONDAY, 22nd August, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

CITY OF LEICESTER.

DEMOLITION AND CLEARANCE WORKS—LEICESTER CORPORATION AREAS NOS. 207-209.

COMPULSORY PURCHASE ORDER, 1958.

Contractors with adequate facilities to complete within a limited period are invited to TENDER for the DEMOLITION and CLEARANCE of 52 PROPERTIES in CHECKETTS ROAD, LOUGHBOROUGH ROAD, LITTLE AVENUE, VICTORIA ROAD NORTH and CLAREMONT STREET, Leicester.

Full details and Forms of Tender are obtainable from the undersigned on payment of £1 1s., refundable on receipt of a bona-fide Tender.

Tenders to be returned in the official envelope by 4.30 p.m., THURSDAY, 11th August, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

CONTRACTS

WORKINGTON CORPORATION.

WATER WORKS.

MIDDLE ZONE SUPPLY.

CONTRACT NO. 10—PIPELAYING.

The Corporation invite TENDERS from experienced contractors for the LAYING of 2,500yd. of 15in. dia. CONCRETE-LINED, SPUN-IRON PIPES with FLEXIBLE JOINTS, together with the Installation of Sluice Valves, Washouts, etc. All Works are within the Borough boundary.

The General Conditions of Contract, Specification, Drawings, Bill of Quantities and Form of Tender prepared by the Consulting Engineers, MESSRS. HERBERT LAPWORTH PARTNERS, 25 Victoria Street, Westminster, S.W.1, may be obtained from the undersigned upon application on or after Monday, 15th August, 1960, on payment of a cheque for £5, made payable to the Workington Corporation, which amount will be refunded on receipt of a bona-fide Tender.

Drawings may be seen and general information obtained during reasonable hours at the office of the Borough Engineer and Surveyor, Stoneleigh, Park End Road, Workington.

Sealed Tenders, endorsed "Tender for Pipelaying," shall be delivered at the office of the undersigned at or before Noon on MONDAY, 12th September, 1960.

The Corporation do not undertake to accept the lowest or any Tender.

G. McKAY PORTER,
Town Clerk.

Town Hall,
Workington.
August, 1960.

BOROUGH OF LEYTON.

ASPHALT AND BITUMINOUS MACADAM RESURFACING WORKS.

TENDERS are invited for the RESURFACING in (a) HOT-ROLLED ASPHALT, and (b) BITUMEN MACADAM, together with ancillary Works, at SITES on CLASSIFIED ROADS within the Borough.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Leyton, E.10, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

The General Conditions of Contract may be inspected at the office of the Borough Engineer and Surveyor during normal office hours.

Tenders are to be forwarded, addressed to the undersigned, so as to be received not later than Noon on MONDAY, 15th August, 1960.

D. I. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

BOROUGH OF BARNES.

ROCKS LANE RECREATION GROUND.

HARD TENNIS COURTS.

TENDERS are invited for the CONSTRUCTION of Three HARD TENNIS COURTS at the ABOVE SITE.

Form of Tender, Specification and Bill of Quantities may be obtained on application to the undersigned, and must be returned, in the envelope provided, not later than First Post, FRIDAY, 26th August, 1960.

W. R. SHEPHERD,
A.M.I.C.E., M.I.Mun.E., F.R.I.C.S.,
Borough Engineer and Surveyor.

Municipal Offices,
Sheen Lane, S.W.14.
26th July, 1960.

WILLENHALL URBAN DISTRICT COUNCIL.

GROUP "B" 80-W MERCURY DISCHARGE STREET LIGHTING.

TENDERS are invited for the ERECTION ONLY of 92 STANTON TYPE 9A CONCRETE COLUMNS and the PROVISION and FIXING of LANTERNS, LAMPS, and the necessary Wiring.

The General Conditions of Contract and Plans may be inspected, and the Specification, Bill of Quantities and Form of Tender obtained from the Office of the Engineer and Surveyor, Town Hall, Willenhall.

Tenders, in plain sealed envelopes endorsed "Street Lighting—Wood Lane Estate," should reach the undersigned by Noon on SATURDAY, the 10th September, 1960.

JOHN R. RIDING,
Clerk of the Council.

Town Hall,
Willenhall, Staffs.

ORPINGTON URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of the FOLLOWING STREETS:—

(1) Dowlerville Road, Green Street Green. 123 lin. yd.

(2) Hilda Vale Road, Farnborough, 440 lin. yd.

The works consist of Excavating for and Providing and Laying Hardcore Foundation, Tarmacadam Surfacing, Slab Paved Footways, Kerbing, Construction of a Surface Water Sewer, Soakaways and Gullies.

The Conditions of Contract and Drawings may be inspected at my Offices and Bills of Quantities obtained on application to me, upon payment of £2 deposit for each street, which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders, in the envelope provided, must be received not later than Noon on the 26th AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender.

L. W. FREEMAN,
Engineer and Surveyor.

Civic Offices,
The Walnuts,
High Street,
Orpington, Kent.

RAMSBOTTOM URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

The Council invites TENDERS for MAKING-UP the FOLLOWING STREETS at PIN MEADOW, STUBBINS:

William Street.
Meadway (Part).
Gilbert Street.
Together with Eight Back Streets.

Plans, Specifications, Bills of Quantities and Forms of Tender may be obtained on application to the Council's Engineer and Surveyor.

Tenders, enclosed in plain sealed envelopes, endorsed "Private Street Works," should be returned so as to reach the undersigned not later than WEDNESDAY, 7th September, 1960.

F. BELLIS,
Clerk of the Council.

Council Offices,
Ramsbottom,
Via Bury.

CONTRACTS

HAMPSHIRE COUNTY COUNCIL.

ROADS AND BRIDGES.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING PLANT, VEHICLES and EQUIPMENT:—

16 Tractors and Equipment.
14 2/3-ton Lorries.
Three Foragers.
Five Plant Trailers.
Five Dumpers.
Three Tractor Loading Equipments.
Six Single-Tool Compressors.
Three Scwt. Pick-up Trucks.
Four Vibrating Rollers.
One 5/3½ Concrete Mixer.
Four 15cwt. Vans.
Two Whacker Vibro Rammers.
Four Mechanical Road Sweepers.
One Portable Paint Sprayer.
One Tractor-mounted Digger.
Four 12 cu. yd. Lorries.
Three Bulk Grit Spreading Bodies.
22 Auto-Scythes.
Six Tractor-mounted Grass Cutters.

Specifications and Forms of Tender may be obtained on application, in writing, to the undersigned.

H. N. JENNER,
County Surveyor.

The Castle,
Winchester.
July, 1960.

BOROUGH OF YEOVIL.

ERECTION OF 42 HOUSES, 12 OLD PEOPLE'S BUNGALOWS AND SIX GARAGES.

Applications are invited from experienced builders who wish to submit a TENDER for the ABOVE-MENTIONED PROPOSAL.

Applications must be submitted to the undersigned not later than 10 a.m. on WEDNESDAY, 17th August, 1960, giving the names of local authorities for whom similar work has been carried out.

Applicants invited to tender will receive copies of Drawings and Specification, and be notified of the last date for receipt of Tenders.

A. HEAL, M.I.Mun.E.,
Borough Surveyor.

Municipal Offices,
Yeovil.

BOROUGH OF WILTON.

LAYING OF MAINS, CONSTRUCTION OF ROAD AND SITE WORKS AT BULBRIDGE ESTATE, WILTON, NEAR SALISBURY.

TENDERS for the ABOVE will be invited at the end of August from a selected list of builders and building contractors. Those interested who wish their names to be considered should write immediately to the Architects, Messrs. POTTER AND HARE, of De Vaux House, De Vaux Place, Salisbury, Wilts. Applications should be received on or before WEDNESDAY, the 10th August, 1960.

GEO. LEOPOLD LUSH,
Town Clerk.

Municipal Offices,
Kingsbury Square,
Wilton.
26th July, 1960.

RUISLIP-NORTHWOOD URBAN DISTRICT COUNCIL.

HIGHWAY WORKS AT RUISLIP STATION BRIDGE, WEST END ROAD.

TENDERS are invited for BUILDING UP and WIDENING of EMBANKMENTS, REGRADING, RE-ALIGNMENT and RESURFACING of approx. 3,500 sq. yd. of CARRIAGEWAY, RE-LAYING 700 lin. yd. of existing GRANITE KERB, and RECONSTRUCTION of FOOTWAYS, together with SURFACE WATER DRAINAGE, etc.

Documents from Engineer and Surveyor on payment of £2 2s. deposit, which is returnable on receipt of bona-fide Tender. Tenders to be returned to undersigned not later than MONDAY, 5th September, 1960.

EDWARD S. SAYWELL,
Clerk of the Council.

WORSLEY URBAN DISTRICT COUNCIL.

NEW SEWAGE DISPOSAL WORKS—LITTLE HULTON.

TENDERS are invited from experienced civil engineering contractors for the FOLLOWING WORKS under one contract:—

(a) Construction of a Sewage Disposal Works, comprising Four R.C. Settling Tanks, Two R.C. Aeration Tanks, One R.C. Digestion Tank, Two Sludge Pumphouses, One R.C. Grit Tank, R.C. Consolidation Tanks, R.C. Channels, Foundation to Gasholder, 13 Sludge Beds, together with Access Roads and Services.
(b) Construction of Intercepting Sewer 1,850yd. long with 12in. to 27in. dia. Concrete Pipes.
(c) 300yd. of 15in. C.I. Rising Main.

Plans may be inspected at the Office of the Engineer and Surveyor, Town Hall, Walkden.

The Form of Tender, General Conditions of Contract, Specification, Bills of Quantities and a Layout Plan may be obtained from L. T. BROOME, Esq., M.I.Mun.E., Engineer and Surveyor, on payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender.

Tenders, accompanied by the priced Bill of Quantities, and enclosed in the envelope provided, are to be delivered to the undersigned not later than SATURDAY, the 27th August, 1960.

ROBERT E. HUBAND,
Clerk and Solicitor.

Town Hall,
Walkden,
Manchester.

MASONS' WORK on OFFER from August 1st in all London areas. Footway Laying and Granite Kerb Fixing.—Apply: FITZPATRICK AND SON (CONTRACTORS), LTD., 455 Old Ford Road, Bow, London, E.3.

EXPERIENCED SUB-CONTRACTOR REQUIRED for RIVER CROSSINGS on large Yorkshire water main contract.—Full particulars of previous similar work to: JOHN O'DEA, LTD., 145 Otley Old Road, Leeds, 16.

LARGE Midlands contracting firm with contracts in all parts of the U.K., wishes to EXTEND its PANEL of SUB-CONTRACTORS. Contractors who undertake heavy excavations by scraper, trench excavation, agricultural drainage and similar works are requested to write immediately, with full particulars of their machinery capacities, etc., to Box 8174, F. E. Potter, Ltd., 2 Clements Inn, London, W.C.2.

For Contracts received too late for classification see page 533

APPOINTMENTS VACANT

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the UNDER-MENTIONED APPOINTMENTS:

(1) First Assistant Divisional Surveyor in Division No. 1 (Headquarters at Downham Market).—Salary Scale Special (£785-£1,070 per annum). Starting point on scale according to qualifications and experience. Preference will be given to candidates holding Associate Membership of the Institutions of Civil Engineers, Municipal Engineers or Highway Engineers. Experience in a Divisional Surveyor's Office of a County Council is essential, and experience in other departments of highway engineering work, in addition, would be an advantage.
(2) Two Engineering Assistants at Head Office, Norwich—Grade III/IV (£880-£1,220 per annum). Starting point on scale according to qualifications and experience.
Applicants should be Associate Members of the Institution of Civil Engineers, or hold an equivalent qualification by examination. They must be competent Surveyors, having had experience of design, setting-out and construction of roads.
(3) One Engineering Assistant at Head Office, Norwich, for the Planning Control Section of the Highways Department.—Grade I/II (£610-£880 per annum). Starting point on scale according to qualifications and experience.

Preference will be given to applicants who are qualified, or are in process of qualifying.

For each of the above posts a motor car is essential, and the appointed officers will be paid an essential user's car allowance in accordance with the recommendations of the National Joint Council, as adopted and applied from time to time by the County Council. Loans available for purchase if required.

The appointments will be on the permanent establishment of the Department, terminable by one month's notice on either side. The provisions of the Local Government Superannuation Acts, 1937 to 1953, apply. The successful candidates will be required to pass a medical examination. Grant towards removal expenses.

The National Joint Council Service Conditions apply in general.

Further particulars and Application Forms obtainable from the COUNTY SURVEYOR, County Offices, Norfolk County Council, Thorpe Road, Norwich, Norfolk, NOR 47A.

Latest date for completed Application Forms—26th AUGUST, 1960.

BOROUGH OF CHORLEY.

APPOINTMENT OF SENIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE-MENTIONED APPOINTMENT in the Borough Engineer's Department at a salary within A.P.T. Grade III (£880-£1,065).

Applicants should hold appropriate qualifications.

The National Scheme of Conditions of Service and the Superannuation Acts apply.

The Council will consider provision of housing accommodation for the successful applicant if required.

Applications, stating age, qualifications and experience, with copies of two recent testimonials, must be received by the undersigned not later than the 6th AUGUST, 1960.

ROBERT POTTER,
Town Clerk.

Town Hall,
Chorley.
15th July, 1960.

CITY OF OXFORD.

RESIDENT ENGINEERING STAFF REQUIRED FOR BLACKBIRD LEYS LINK ROAD AND COWLEY CENTRE DEVELOPMENT.

APPLICATIONS are invited for the FOLLOWING TEMPORARY POSTS, to commence early September, 1960, for a period of from two to three years:

Resident Engineer—Remuneration £1,300 to £1,600 per annum, depending on qualifications and experience. The person appointed to this post will have site control of the contracts for the Blackbird Leys Link Road and Cowley Centre Development. Applicants should have considerable experience of reinforced concrete bridge construction, roadworks, drainage works, administration of contracts, etc., and should possess a University Degree and/or Corporate Membership of the Institution of Civil Engineers.

Assistant Resident Engineer — Remuneration £1,100 to £1,350 per annum, depending on qualifications and experience. Applicants should have considerable experience of reinforced concrete bridge construction, roadworks, drainage works, administration of contracts, etc. The person appointed to this post will principally assist the Resident Engineer on the Blackbird Leys Link Road. Should possess a University Degree or have passed Parts 1 and 2 of the Institution of Civil Engineers' examination, or equivalent.

Applications, stating details of training, experience, current and previous employment, and giving the names of three referees, should be made in writing to the City Engineer, Town Hall, Oxford, not later than MONDAY, 15th August, 1960.

Housing accommodation will be provided if required.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

STATES OF JERSEY.

SEWERAGE BOARD.

APPLICATIONS are invited for the APPOINTMENT in the Consultant Engineer's Office of an ASSISTANT CIVIL ENGINEER for the design of sewers and pumping stations.

Commencing salary will be in the range £810-£950.

Appointments are temporary, terminable by one month's notice on either side, but anticipated duration is at least two years.

The States of Jersey does not undertake to provide housing accommodation.

Applications, giving full details of training, qualifications, present and previous appointments, stating age and whether married or single, and enclosing copies of testimonials, should be delivered to the undersigned as soon as possible.

S. AVERILL GOTHARD, B.Sc., M.I.C.E.,
Hon. M.Inst.S.P.,
Consultant Engineer.

Public Health Offices,
South Hill,
St. Helier, Jersey.

APPOINTMENTS VACANT

NORTHAMPTONSHIRE COUNTY COUNCIL.

A CHIEF WORK STUDY OFFICER is REQUIRED to set up and take charge of a new Work Study Section in the County Surveyor's Department.

The appointment is superannuable and the salary will be in accordance with Grade A.P.T. III of the National Scales, £880 rising to £1,065 per annum.

Applicants, preferably with technical training or qualifications, need not have had experience in work study as a thorough training will be given. Some experience in a divisional surveyor's office would be an advantage.

Candidates should submit applications, stating age, qualifications and previous experience, together with the names of two persons to whom reference may be made, to the County Surveyor, County Offices, Guildhall Road, Northampton, by MONDAY, the 15th August, 1960.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

COUNTY BOROUGH OF BARROW-IN-FURNESS.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

HIGHWAYS SUPERINTENDENT.

APPLICATIONS are invited for the PERMANENT POST of HIGHWAYS SUPERINTENDENT in the Borough Engineer and Surveyor's Department.

The post is on Grade II (£765-£880), but a candidate holding a recognised professional qualification will be placed on the Special Grade (£785-£1,070), and in either case the commencing salary will be fixed according to the experience of the successful candidate.

Housing accommodation may be provided if required. The Department works a 5-day week. A car allowance or departmental transport will be provided.

Full details of the present organisation of the Highways Department, the duties of the post, conditions of service, and forms of application may be obtained from the Borough Engineer and Surveyor, to whom completed applications must be returned not later than MONDAY, 22nd August, 1960.

LAWRENCE ALLEN,
Town Clerk.

Town Hall,
Barrow-in-Furness.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

APPOINTMENT OF TWO TOWN PLANNING ASSISTANTS.

APPLICATIONS are invited for TWO APPOINTMENTS of TOWN PLANNING ASSISTANTS at salaries in accordance with Grade A.P.T. IV (£1,065-£1,220 per annum).

Applicants should be Corporate Members of either the Town Planning Institute, the Royal Institution of Chartered Surveyors or the Institution of Municipal Engineers, and must have had experience in all aspects of town planning work. The Council will meet reasonable removal expenses and afford assistance in housing in suitable cases.

Applications, stating age, education, qualifications, experience, past and present appointments, and giving the names of two referees, should be sent to the Borough Engineer, Surveyor and Town Planning Officer, T. B. HILL, M.I.C.E., M.I.Mun.E., A.M.I.W.E., to arrive not later than 6th SEPTEMBER, 1960.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

APPOINTMENT OF BUILDING INSPECTOR.

APPLICATIONS are invited for the APPOINTMENT of BUILDING INSPECTOR at a salary in accordance with Grade A.P.T. II (£765-£880 per annum).

Candidates should have had experience in a similar capacity and should have a good knowledge of building bye-laws and town planning procedure. Preference will be given to applicants holding the Building Inspector's Certificate of the Institution of Municipal Engineers. The Council will meet reasonable removal expenses and afford assistance in housing in suitable cases.

Applications, stating age, education, qualifications, experience, past and present appointments, and giving the names of two referees, should be sent to the Borough Engineer, Surveyor and Town Planning Officer, T. B. HILL, M.I.C.E., M.I.Mun.E., A.M.I.W.E., to arrive not later than 6th SEPTEMBER, 1960.

ARCHIBALD GLEN,
Town Clerk.

BOROUGH OF EALING.

TOWN PLANNING ASSISTANT, A.P.T. III, £925-£1,100, inclusive. Must be suitably qualified and experienced in development control. Full particulars and application form from BOROUGH ENGINEER, Town Hall, Ealing, W.5. Closing date, 15th AUGUST, 1960.

BOROUGH OF EDMONTON.

APPOINTMENT OF ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT in the Borough Engineer and Surveyor's Department within Grade A.P.T. I, £625-£805, inclusive of London Weighting. Training and financial assistance scheme, and five-day week.

Applications by letter, stating age, qualifications, present and previous appointments, together with details of experience, to be delivered to the TOWN CLERK, Town Hall, Edmonton, not later than 26th AUGUST, 1960.

TARVIN RURAL DISTRICT COUNCIL.

SEWERAGE CONTRACT.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the ABOVE APPOINTMENT.

The salary will be at the rate of £1,000 per annum, with the addition of a subsistence allowance of £250 per annum, plus a car allowance.

The contract is for sewerage and sewage disposal works for the village of Tarvin, costing £50,500.

Experience on similar works is essential, and applicants must be capable of checking, supervising and measuring up in all their aspects.

Applications, stating earliest date available, and giving age and experience, and accompanied by copies of three recent testimonials, must be delivered to Mr. Thomas Pritchard, M.I.Mun.E., Engineer to the Council, not later than Noon on 15th AUGUST, 1960.

(Signed) J. H. MOORE DUTTON,
Clerk to the Council.

Westminster Buildings,
Newgate Street,
Chester.

APPOINTMENTS VACANT

GOVERNMENT OF MAURITIUS.

MINISTRY OF HOUSING, LANDS AND TOWN AND COUNTRY PLANNING.

CIVIL ENGINEER.

Qualifications: Candidates (not over 50) should have either a University Degree, or equivalent, recognised by the Institution of Civil Engineers, and two years' practical experience; or have passed, or be otherwise exempt from, Parts I and II of the Final Examinations of the Institution of Civil Engineers and have had not less than five years' practical experience.

Duties: To take charge of the field work of the Cyclone Housing Organisation, to supervise site works and erection of houses, and such other duties as the Government may call upon the officer to perform.

Terms: Contract for one tour of three years, with salary £1,700 p.a. Substantial gratuity.

Free passages. Income tax at local rates.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age, and brief details of qualifications and experience. Quote BCD160/52/01/D14.

BRITISH TRANSPORT COMMISSION.

CLERK OF WORKS (Temporary) REQUIRED for supervision of contract for the construction of new locks and other works on the River Lee Navigation and at Regent's Canal Dock, Stepney.

Must have experience in supervising large civil engineering contracts; experience in mass concrete and steel sheet piling desirable.

Salary £900 to £1,000. Certain railway travel privilege facilities.

Apply in writing, giving full particulars, to DIVISIONAL STAFF ASSISTANT, British Waterways, Willow Grange, Church Road, Watford, Herts.

Closing date: One week after the date of this advertisement.

BOROUGH OF BANBURY.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER to supervise the construction of a sewage pumping station, approx. 1,900 lin. yd. of gravity sewers from 24in. dia. to 12in. dia., and 1,100 lin. yd. of 14in. dia. asbestos-cement rising main, which will be the subject of one contract, followed by extensions to the existing sewage treatment works, which will be the subject of a separate contract.

The work will be executed under the direction of the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, MM.I.C.E., 67 Tufton Street, Westminster, London, S.W.1. Work will commence with Contract No. 3, which is due to start in October, and it is expected that Contract No. 4 will commence before the first contract is completed.

The salary offered is £1,250 per annum, such salary to be adjusted according to any national increases, and the appointment, subject to satisfactory service, will last approximately two years, terminable by two months' notice in writing on either side. No housing accommodation will be made available for this appointment.

The person appointed will, if he has his own car, be paid an essential user car allowance on the basis of a car not exceeding 10-h.p.

Applicants should preferably be Corporate Members of the Institution of Civil Engineers, and should have had experience of similar work; they should apply in writing to the undersigned not later than 22nd AUGUST, giving full particulars of age, qualifications and experience, together with the names and addresses of two referees.

FREDERICK G. BOYS,
Town Clerk.

Municipal Buildings,
Banbury, Oxon.

BOROUGH OF EDMONTON.

BOROUGH ENGINEER'S DEPARTMENT.

SENIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for the APPOINTMENT of SENIOR ENGINEERING ASSISTANT. Applicants should have passed the Final Examination of the Institution of Municipal Engineers, or equivalent.

Salary Grade A.P.T. IV (£1,065-£1,220) plus London Weighting £45.

Applications, on forms obtainable from the TOWN CLERK, Town Hall, Edmonton, N.9, must be delivered by the 1st SEPTEMBER, 1960.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

The Havant and Waterloo Urban District Council invite APPLICATIONS for APPOINTMENTS in the FOLLOWING GRADES:

Senior Assistant Engineer—A.P.T. IV (£1,065-£1,220).

Assistant Engineer—Special (£785-£1,070).

Engineering Assistant—A.P.T. II (£765-£880).

Candidates must be properly qualified for the grade applied for, and the commencing point will be determined according to qualifications and experience.

Housing accommodation will be provided for married applicants if required, half removal expenses will be paid, and consideration would be given to the payment of car allowances.

The district, which is located on the South Coast, has a population of approx. 75,000 and is rapidly expanding, offering excellent opportunities for experience.

Further particulars and Forms of Application obtainable from the ENGINEER AND SURVEYOR, 1 Park Road North, Havant, Hampshire, to whom they are to be returned not later than SATURDAY, 20th August, 1960.

CHORLEYWOOD URBAN DISTRICT COUNCIL.

CLERK OF WORKS.

APPLICATIONS are invited for the position of TEMPORARY CLERK of WORKS.

Candidates should be experienced in the supervison of the constructon of roads, sewers, footways, services, etc., and the setting out and measurement of contract work.

The duration of the appointment will be approximately nine months.

The salary payable will be within the range of £800-£900 per annum, according to experience.

Applications to be forwarded to the undersigned with details of experience, and names and addresses of two (technical) referees, not later than 19th AUGUST, 1960.

R. DARRAH,
Clerk of the Council.

Chorleywood House,
Chorleywood,
Herts.
4th August, 1960.

APPOINTMENTS VACANT

CENTRAL ELECTRICITY GENERATING BOARD.

MIDLANDS PROJECT GROUP.

THIRD ASSISTANT ENGINEER (CIVIL)—STRUCTURES AND BUILDINGS.
FOURTH ASSISTANT ENGINEER (CIVIL)—QUANTITIES.

APPLICATIONS are invited for the ABOVE APPOINTMENTS in the Midlands Project Group, at Bournville, Birmingham:

(a) Third Assistant Engineer (Civil)—Structures. Vacancy No. MPG.54/60. — Applicants should have experience in the design and construction of power stations or other industrial buildings and ancillary works, together with some experience in the writing of specifications and in the preparation of contract documents. The salary will be within Scale 13 (£1,090-£1,410 per annum) of the National Joint Board Agreement.

(b) Third Assistant Engineer (Civil)—Builders. Vacancy No. MPG.55/60. — Applicants should have experience in the design and construction of power stations or industrial buildings, with particular reference to modern building construction and architectural details. Experience in an architect's office and in the assessment of specifications will be an advantage. The salary will be within Scale 13 (£1,090-£1,410 per annum) of the National Joint Board Agreement.

(c) Fourth Assistant Engineer (Civil)—Quantities. Vacancy No. MPG.56/60.—Applicants should be competent Quantity Surveyors with experience in estimating, billing and measurement for power stations or other large industrial buildings, and ancillary works—particular experience in site measurement will be an advantage. The salary will be within Scale 10 (£850-£1,130 per annum) of the National Joint Board Agreement.

Applications for all appointments should preferably hold an appropriate qualification.

Applications should be made on standard form AE.6, available from the ADMINISTRATIVE OFFICER, Midlands Project Group, P.O. Box 314, Birmingham, 30, and should be returned to him not later than 17th AUGUST, 1960.

Envelopes should be marked "Confidential," quoting the appropriate Staff Vacancy Number.

WEST SUSSEX COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT on the permanent staff of an ASSISTANT ENGINEER for Trunk Roads, A.P.T. IV (£1,065-£1,220).

Candidates must be Associate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, and have had experience in the preparation of highway improvement schemes, together with supervision of works.

Application Forms may be obtained from the County Surveyor, County Hall, Chichester, and must be returned to him duly completed not later than 22nd AUGUST, 1960.

T. C. HAYWARD,
Clerk of the County Council.

BOROUGH OF DAGENHAM.

CLERK OF WORKS REQUIRED for approx. two years to supervise erection of 190 dwellings, four shops and 47 garages at Canvey Island, Essex.

Salary £850 per annum.

Candidates with experience of supervising works of this nature should apply to the Borough Engineer and Surveyor for Form of Application and further particulars.

Closing date—22nd AUGUST, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

CITY AND COUNTY OF BRISTOL.

CITY ENGINEER AND PLANNING OFFICER'S DEPARTMENT.

APPOINTMENT OF PLANT SUPERVISOR.

APPLICATIONS invited for POST of MECHANICAL PLANT SUPERVISOR. Salary Grade A.P.T. III (£880-£1,065 p.a.).

Successful applicant will be required to take charge of the maintenance and management of the plant operated by the Department, which includes excavators, bulldozers, road rollers, tractors, compressors, and general civil engineering plant.

Post pensionable; medical examination and, except in case of an officer transferred from service of another Local Government Authority, probationary period of six months.

Applications, stating age, nationality, educational training, qualifications (if any), present and previous positions with salaries and dates, notice required to terminate present appointment, whether related to a member or senior officer of the Council, and names of two referees, to CITY ENGINEER AND PLANNING OFFICER, Cabot House, Deanery Road, Bristol, 1, by 22nd AUGUST.

Canvassing disqualifies.

THE URBAN DISTRICT COUNCIL OF TETTENHALL.

APPOINTMENT OF HIGHWAYS AND WORKS SUPERINTENDENT.

APPLICATIONS are invited for the APPOINTMENT of HIGHWAYS and WORKS SUPERINTENDENT in the Engineer and Surveyor's Department at a salary to be within the Miscellaneous Grade VI (£715-£775 per annum).

If the successful applicant possesses a car, an allowance will be made.

Housing accommodation will be provided if required.

The person appointed will be under the direction of and responsible to the Engineer and Surveyor for the supervision of the Council's Works and Cleansing Department. The work consists of the construction and maintenance of highways, sewers and buildings and the collection and disposal of house refuse.

Applications, which must be endorsed "Highways Superintendent," must state age, present and past appointments, qualifications and particulars of experience, together with names and addresses of persons to whom reference may be made, must be addressed to MR. J. W. MASON, Engineer and Surveyor, Council Offices, Upper Green, Tettenhall, Staffs., not later than WEDNESDAY, 31st August, 1960.

R. WAKEFIELD RUSSELL,
Clerk of the Council.

Council Offices,
Tettenhall.

APPOINTMENTS VACANT

MINISTRY OF LABOUR.

QUANTITY SURVEYORS and ASSISTANT QUANTITY SURVEYORS REQUIRED by Admiralty, War Department, Air Ministry, Ministry of Works and Ministry of Education.

Vacancies in London, Provinces and occasionally overseas. London salaries for suitably qualified and experienced men over 25 years of age range from £830-£1,300 per annum. Quantity Surveying Assistants and others having some experience in quantity surveying at salaries ranging from £387 10s. to £900 per annum also required. Prospects of promotion and pensionable status. Write for particulars of vacancies in each department and forms, quoting JQS, to MINISTRY OF LABOUR, Technical and Scientific Register (Room 403), 26 King Street, London, S.W.1.

WEST AFRICAN BUILDING RESEARCH INSTITUTE.

LIAISON OFFICER.

Qualifications: Candidates, between 30 to 50 years of age, must be A.M.I.C.E. or A.R.I.B.A., with at least five years' experience of design and construction in the Tropics. A degree in Engineering or Architecture is desirable.

Duties: To undertake inquiries, surveys and field research for the Institute, and to further interchange of inquiries and advice between the Institute and the building and construction industry in West Africa.

Terms of Appointment: On contract for two tours of from 15 to 24 months in the first instance.

Emoluments in Scale £1,944 to £2,196 p.a. plus substantial gratuity.

Free passages. Generous home leave. Substantial children's allowances.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age, and brief details of qualifications and experience. Quote BCD.197/487/05/D14.

COUNTY OF CORNWALL.

RESIDENT ENGINEER FOR NOTTER BRIDGE, SALTASH.

APPLICATIONS are invited from suitably qualified persons for the post of RESIDENT ENGINEER at a salary up to £120 per month, to supervise the construction of a bridge with a central arch of 55ft. and two side arches of 15ft. in reinforced concrete and retaining walls of mass concrete with masonry facing. The work is expected to start in September and will last for about nine months.

Applications, stating age, qualifications, present and previous appointments and experience, together with names of two persons to whom reference may be made, should be sent to the County Surveyor, County Hall, Truro, by 17th AUGUST, 1960.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
25th July, 1960.

CITY OF PLYMOUTH.

APPLICATIONS (by 29th AUGUST, 1960) are invited for the FOLLOWING POST on the permanent staff of the City Engineer and Surveyor:

District Surveyor—Salary within Special Grade (£785-£1,070 p.a.).

The duties consist of the organisation of highway and other works, and control of labour within one of the two districts into which the city is divided.

Applicants must have passed the Final Examination of the Institute of Works and Highways Superintendents, and have had five years' experience in this type of work.

A car is provided, and a three-bedroomed flat is available to rent.

Applications on forms to be obtained from the undersigned.

J. ACKROYD,
City Engineer and Surveyor.

The Guildhall,
Plymouth.

NEWQUAY URBAN DISTRICT COUNCIL.

RESIDENT ENGINEER.

The Council invite APPLICATIONS for the POST of RESIDENT ENGINEER to supervise, under the direction of Consulting Engineers, the construction of Stage I of the Towan Outfall Scheme, comprising about 4,000ft. of concrete-lined trunk sewer in tunnel, together with shafts, outfall, and incidental works.

Applicants should have experience of sewerage work and also of tunnelling. They must be competent in surveying and levelling, measuring-up, and the keeping of records.

The appointment, which is due to commence at the beginning of October, 1960, is temporary but will extend over a period of upwards of two years. There is also the possibility of continuing employment for Stage II of the Towan Scheme and subsequent schemes planned by the Council.

The salary will be in accordance with A.P.T. Grade V (£1,220-£1,375 per annum), and the appointment may be terminated by one month's notice in writing on either side.

Applications, marked "Resident Engineer," and giving age, qualifications, experience, and date when available, together with the names of two referees, should reach the undersigned not later than SATURDAY, 27th August, 1960.

F. H. SMITH,
Solicitor, Clerk of the Council.

Municipal Offices,
Newquay,
Cornwall.

MOWLEM PAVING CO., LTD., REQUIRE additional SUPERVISORS for asphalt surfacing contracts. Duties will be to control and organise the work of road gangs operating in the London area. Experienced and practical men are invited to apply in writing, with details of training, previous positions, age, etc., to 19 Grosvenor Place, S.W.1. A good salary commensurate with experience is envisaged, and a car is provided, or allowance paid. A pension scheme operates after probationary period. All replies treated as confidential.

JUNIOR CIVIL ENGINEERS REQUIRED to work on sites with excellent opportunities for training. Applicants should be graduates, or equivalent, and should be between the ages of 20 and 26.—Apply in writing, giving brief details of qualifications and experience (including vacation course work), also stating age, to the Chief Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

SITE MEASURING AND COSTING SURVEYORS REQUIRED for contract near Stevenage. Local men preferred, although there will be opportunities to travel later. Age between 21 and 30. Must have had previous site experience and knowledge of standard methods of measurement. — Apply, with brief details, to Contract Labour Department, SIMON-CARVES, LTD., Cheadle Heath, Stockport, Cheshire, quoting Ref. SC.77.

APPOINTMENTS VACANT

SENIOR and **JUNIOR SITE ENGINEERS** and **QUANTITY SURVEYORS** are **REQUIRED** for civil engineering and building contracts in England and Wales. These are permanent appointments with good prospects. Bonus and superannuation schemes in operation. — Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required, and should be addressed to Personnel Officer, **TARMAC CIVIL ENGINEERING, LTD.**, Ettingshall, Wolverhampton.

LOVATT, Wolverhampton.—**ESTIMATOR.**—We have a vacancy in our estimating department at Wolverhampton for an experienced Estimator age 30 years or over. Previously employed by similar company and experienced in estimating for major building works. The appointment is permanent and will carry a good salary with pension scheme, etc. Applications will be treated in strict confidence, and should be addressed to Personnel Manager, **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

MATERIALS CLERK, able to read drawings and with site experience on civil engineering contracts, **REQUIRED** for estimating department in the London office of civil engineering contractors.
Write Box V.2354, "The Contract Journal."

EXPORT SALES

The makers of Muir-Hill dumpers and loaders **REQUIRE a YOUNG MAN** with civil or mechanical engineering background, initiative, a European language and a sympathetic approach to other nationalities and races to train with their home sales force as an **OVERSEAS REPRESENTATIVE**. Based on Manchester.—Apply to:

J. L. Sturrock, Sales Director.
E. BOYDELL AND CO., LTD.,
Old Trafford, Manchester, 16.

RAILWAY and civil engineering contractors **REQUIRE SITE ENGINEERS** capable of taking complete charge of medium-size civil engineering contracts. Knowledge of trackwork advantageous but not essential. Appointments initially in Scotland, but candidates must be fully mobile and hold valid driving licence.—Apply in writing, giving full details, to **GRANT, LYON AND CO., LTD.**, Scotter Road, Scunthorpe, Lincs.

ENGINEER ESTIMATOR REQUIRED by growing firm of civil engineering contractors. Head office appointment. Excellent working conditions and prospects. Only those with adequate experience and capable of high performance need apply. — Write, giving details age, experience, and salary required, to **GRANT, LYON AND CO., LTD.**, Scotter Road, Scunthorpe, Lincs.

NUCLEAR CIVIL CONSTRUCTORS (Trollope and Colls-Holland & Hannen and Cubitts) have vacancies for fully experienced **GENERAL FOREMEN, SECTION FOREMEN** and **FOREMEN** (Carpenters) on their nuclear power station contract at Trawsfynydd, North Wales.—Apply, giving full particulars of previous experience and salary required, to Labour and Personnel Manager, Nuclear Civil Constructors, Trawsfynydd, Merionethshire, North Wales.

TAYLOR WOODROW CONSTRUCTION, LTD.

Have vacancies for **CIVIL ENGINEERS** at the head offices at Southall. Applications are invited from men with wide site experience of major civil engineering projects to be engaged upon the planning of such works. Conditions of employment are attractive. A pension scheme is in operation.—Write, giving brief details of personal history and availability for interview to:

Personnel Manager,
TAYLOR WOODROW CONSTRUCTION, LTD.,
345 Ruislip Road, Southall, Middlesex.

GENERAL FOREMAN REQUIRED to supervise works of main drainage, comprising large concrete pipes. Write, stating age and experience, to **A. BRETT (CONTRACTORS), LTD.**, Grimsargh, near Preston.

GENERAL FOREMAN REQUIRED to supervise the laying of large water mains.—Apply, stating age and experience, to **A. BRETT (CONTRACTORS), LTD.**, Grimsargh, near Preston.

A **WELL-KNOWN** national company wishes to interview applicants for a post in their built-up roofing department, in the Manchester area. The position offers scope and advancement to the successful applicant, who should be about 25 years of age and of good personality and educational background. Previous experience in the building industry is essential, and applicants from the architects' and quantity surveyors' professions will be preferred. A period of training will be provided in London.—Write, with full details, in confidence to Area Manager, Box V.2413, "The Contract Journal."

ASSISTANT SURVEYOR WANTED by civil engineering contractors to assist Quantity Surveyors and Estimators. Ideal prospects for advancement.—Apply, giving details age, experience, salary required, to **GRANT, LYON AND CO., LTD.**, Scotter Road, Scunthorpe, Lincs.

WALTER LLEWELLYN AND SONS, LTD.

Plant Department, **REQUIRE a DEPOT MANAGER.** Duties include the control of repair of mechanical and non-mechanical plant, despatching plant to sites, control of transport. Permanent and pensionable position with expanding organisation.—Apply:

WALTER LLEWELLYN AND SONS, LTD.,
16-20 South Street, Eastbourne.

GENERAL FOREMEN REQUIRED for building contracts, London area. Must have considerable experience in multi-storey concrete-framed buildings. Good salary for applicants with initiative.—Apply, in writing, stating age, experience, etc.: **M. J. GLEESON (CONTRACTORS), LTD.**, Haredon House, London Road, North Cheam, Surrey.

SITE ENGINEER for civil engineering work near London. Experience should include setting out for tunnels in built-up areas. Good pay and progressive career offered to right man. Bonus and pension schemes in operation.—Full particulars to Box V.2394, "The Contract Journal."

SENIOR AGENT for tunnel contract in London area. The applicant should have wide experience of work with shield and in compressed air. Progressive position with developing company. Pension and bonus schemes in operation.
Write Box V.2395, "The Contract Journal."

APPOINTMENTS VACANT

SENIOR QUANTITY SURVEYOR REQUIRED for employment with Cumberland builders. Experience of final accounts and estimates. House available. Write, giving full details of experience and qualifications, and state salary required, to Box V.1715, "The Contract Journal."

AGENT REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract with excellent opportunities for advancement. Good salary and conditions, and entry into superannuation scheme after 12 months' service.—Write Box V.2369, "The Contract Journal."

AGENT REQUIRED for large civil engineering contract in Southern England. Must be fully experienced in earthworks and reinforced concrete work. Good prospects and conditions, pension scheme, etc.—Reply, stating age, experience, and salary required, to **M. J. GLEESON (CONTRACTORS), LTD.**, C.E. Dept., Haredon House, London Road, North Cheam, Surrey.

ENGINEER REQUIRED for setting-out road and sewer contracts in Bucks., Berks. and Oxon. Must be accurate in use of instruments and capable of running small contracts. Pension and bonus schemes in operation.—Write, stating age, experience, and salary required, to Manager, Dept. M.W., **SYDNEY GREEN AND SONS (CONTRACTORS), LTD.**, Henley-on-Thames, Oxon.

ASSISTANT ESTIMATOR.—Vacancy with manufacturers of chain link fencing, steework and gates. Commencing salary approx. £12 p.w., according to experience. Knowledge of trade essential and draghtsmanship useful. Five-day week. Pension scheme. Applications, in writing, to: **PROVE BROS., LTD.**, 126 Rickmansworth Road, Watford, Herts.

J. I. CASE CO., LTD.,

Will appoint additional **AREA REPRESENTATIVES** in the North-East, Midlands, South-East.—If you are an absolutely first-class earthmoving representative and you wish to join a progressive and rapidly expanding company, we invite you to apply (every application in complete confidence) in the first instance to:

Sales Manager,
J. I. CASE CO., LTD.,
Mill Road, West Drayton, Middlesex.

TWO SITE ENGINEERS REQUIRED immediately for sewerage contracts. Opportunities for advancement to Site Agents to applicants of proved experience and ability. Salary £750 to £1,000 per annum, according to experience.—Write, stating age, qualifications and experience, to **A. BRETT (CONTRACTORS), LTD.**, Grimsargh, near Preston.

CONTRACTS MANAGER REQUIRED to take full control of the contracts division of an old-established medium-sized building and civil engineering contractors. Applicants should have a sound technical knowledge and extensive experience in the managements of contracts. A professional qualification would be an advantage. A pension scheme is in operation within the organisation, and the vacancy offers an opportunity with exceptional prospects. Full details of age, qualifications, experience, and salary required, to the Managing Director, **GEORGE CALVERLEY AND SONS (CONTRACTORS), LTD.**, Evington Valley Road, Leicester.

CONTRACTS SUPERVISOR REQUIRED to supervise medium-sized building and civil engineering contracts in the Midlands. A sound practical knowledge of the industry is essential, and the vacancy offers exceptional prospects to a man with drive and organising ability. A pension scheme is in operation within the company. — Applications, stating age, experience, and salary required, to the Managing Director, **GEORGE CALVERLEY AND SONS (CONTRACTORS), LTD.**, Evington Valley Road, Leicester.

ESTIMATORS REQUIRED by **CORROSION TECHNICAL SERVICES, LTD.** Experience of acid-resistant construction not essential. Good prospects for the right men.—Apply in writing, giving full particulars of age, qualifications and experience, to Sunleys Island, Great West Road, Brentford, Middx., or telephone Isleworth 8445.

SITE AGENTS and GENERAL FOREMEN

SIR LINDSAY PARKINSON AND CO., LTD., invite applications for the above positions.—Applicants, who must be fully experienced in carrying out major building contracts of all types, should forward all details to:

Building Director,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, London, S.E.1.

ROLLED ASPHALT FOREMAN REQUIRED for London work only. Permanent staff job with top wages and conditions for first-class man. **MOWLEM PAVING CO., LTD.**, 263 Tunnel Avenue, Greenwich, S.E.10. Telephone: GREenwich 2122.

WM. AIREY AND SON (LEEDS), LTD.—**SITE AGENTS.**—Site Agents are **REQUIRED** who have been craft trained, had experience on major industrial projects and had control of contracts up to a value of £500,000. Sites to be controlled are all in the Leeds and West Riding area. The company has an attractive salary policy, and a contract of employment will be offered to the successful candidates at a salary commensurate with their experience.—Apply in writing to Wm. Airey and Son (Leeds), Ltd., Eldon House, Woodhouse Lane, Leeds, 2.

EXPERIENCED ESTIMATOR REQUIRED by Yorkshire firm of building contractors. Good opportunity with progressive company. Pension scheme in operation. — Write, stating age, experience, and previous employers, and salary required, to Box V.2411, "The Contract Journal."

GENERAL FOREMEN REQUIRED for building and civil engineering contracts in the South. Applicants should have experience of precast as well as in-situ concrete construction. Good conditions of employment with expanding company.—First-class men apply, giving experience, age and salary, to Contracts Manager, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Close, Hemel Hempstead, Herts.

AGENTS REQUIRED to take charge of building and civil engineering contracts in the South. Applicants should have experience of precast as well as in-situ concrete construction. Good conditions of employment with expanding company.—First-class men apply, giving experience, age and salary, to Contracts Manager, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Close, Hemel Hempstead, Herts.

APPOINTMENTS VACANT

YOUNG Graduate **CIVIL ENGINEER REQUIRED** by old-established firm dredging contractors. Previous experience not essential. Employment on permanent basis with full staff benefits to right man. Write Box V.2311, "The Contract Journal."

SITE ENGINEER (experienced) **REQUIRED.** Capable of setting-out for roads, sewers on housing sites, etc. Knowledge of traverse surveys desirable. Permanent and pensionable position to suitable applicant.—Apply in writing, giving full particulars of experience, qualifications, also age, and salary required, to Building Manager, **M. J. GLEESON (CONTRACTORS), LTD.**, Haredon House, London Road, North Cheam, Surrey.

GENERAL FOREMEN (Civil Engineering) **REQUIRED** for reinforced concrete contracts covering bridges, sewage works, bunkers, etc., in various parts of the U.K. Previous experience as General Foreman essential. Generous salary; permanent staff appointments; pension scheme.—Applications, giving age, previous experience and present position, in confidence, to Contract Labour Department, **SIMON-CARVES, LTD.**, Cheadle Heath, Stockport, Cheshire, quoting Ref. SC.79.

BRAITHWAITE FOUNDATIONS AND CONSTRUCTION, LTD.

REQUIRE young **CIVIL ENGINEERS**, age 21-28, with some site experience, for training as site engineers and agents on foundation contracts in U.K. and abroad. Additional experience required for Institution membership can probably be arranged.—Apply, in writing, giving details of past experience and when available, to:

BRAITHWAITE FOUNDATIONS AND CONSTRUCTION, LTD.,
Dorland House, 14/16 Regent Street, London, S.W.1.

ENGINEER REQUIRED to supervise contracts in the South. This is a senior appointment in an expanding company, with good conditions of employment. Applicants should have had experience of controlling building and civil engineering contracts. Preference will be given to first-class men who have had experience with precast as well as in-situ concrete construction.—Applications, giving experience, qualifications, age and salary, in confidence to Contracts Manager, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Close, Hemel Hempstead, Herts.

WORKS MANAGER, with experience in all types of contractors' plant machinery, **REQUIRED** for Hanworth, Feltham, Middx., depot. Preferably residing convenient to this address. Accustomed to controlling fitting and operating staff, general works administration, and with sound engineering past employment in contractors' machinery and plant hire. Age 30-40. Good salary. Car provided. — Apply **KINGSTON PLANT HIRE, LTD.**, Twickenham Road, Hanworth, Middx. 'Phone: FELtham 4084/5.

CONTRACTORS' SENIOR AGENT

(Qualified Civil Engineer) **REQUIRED** to reside overseas and take charge of very important marine contracts. Salary and bonus worth upwards of £6,000 per annum. Write details of age and experience, in strict confidence, to:

Chairman,
BOX V.2457, "THE CONTRACT JOURNAL."

YOUNG MAN as **ASSISTANT** to Works Manager for medium-sized concrete works in Midlands manufacturing pipes and tunnel linings. Good opportunity. State age and salary required.—Write Box V.2410, "The Contract Journal."

A **COMPANY** with extensive on-site coating contracts involving blast cleaning and spray application of modern synthetic coatings, **REQUIRES RESIDENT ENGINEER/AGENT** to take sole charge of automated equipment and gang of 20 specialist operatives on 18-month contract, involving underground work, in the U.K. Permanent employment as Site Engineer available to suitable applicant.—Please write to Box V.2400, "The Contract Journal."

SURVEYORS.—An opportunity exists with national contractor offering promotion and advancements to suitable applicants for the following positions: **SENIOR SURVEYOR: MEASURING SURVEYORS. REQUIRED** initially for large building contract in West London. Experienced in measurements for all trades for final account, and measuring and settling sub-contractors' accounts. Able to work with minimum supervision.—Apply in writing to Box V.2448, "The Contract Journal."

CHIEF ESTIMATOR

THE LONDON FERRO-CONCRETE CO., LTD., urgently **REQUIRE** a top-class **CHIEF ESTIMATOR**, aged about 30-35, for estimating in-situ and precast concrete structures.—Applications shall be sent to:

The Managing Director,
THE LONDON FERRO-CONCRETE CO., LTD.,
Maxted Close, Hemel Hempstead.

LAGOS, NIGERIA.—**E. J. DELANY AND CO., LTD.**, contractors, urgently **REQUIRE a CIVIL ENGINEERING AGENT**, aged 30-40, to take complete charge on site of major road and sewerage contracts. The tour of duty is 18 months plus three months' leave on full pay. Applicants should be fully qualified in engineering surveying, the use of major plant and site planning and, if possible, have had some overseas experience. Position attracts a good salary, bonus, and conditions, including furnished accommodation, return fares for applicant and wife, and a car allowance with running expenses. There are prospects of promotion to Manager for the right man.—Write in confidence to the selectors below, stating qualifications, experience, family, and the conditions and salary required, to No. D.N.6, The Advisory Service for the Building Industry, 82 New Cavendish Street, London, W.1.

BUILDING AGENTS and GENERAL FOREMEN.—If you are qualified by training and you have had experience of recent years in controlling major building contracts from start to finish, with a minimum supervision from head office, and wish to join the permanent contract staff of an old-established company who are expanding their organisation in the Midlands area, we can offer you a position with a good salary, and there is a pension and bonus scheme. Only top-grade men need apply.—Applications invited, in strict confidence, to Personnel Manager, **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

APPOINTMENTS VACANT

CIVIL and STRUCTURAL ENGINEERS.—The world is electrifying its railways and BRITISH INSULATED CALLENDER'S CONSTRUCTION CO., LTD., are playing an important part in this expanding industry. ENGINEERS and SURVEYORS are REQUIRED initially at our London, Rugby and Birmingham district offices for survey, design and erection of overhead equipment. The work includes the installation of concrete foundations, steel structures, and over-track wiring. Permanent position, including pension fund, after satisfactory probation. Applications, giving full details of experience, age and qualifications, should be addressed to the Staff Officer, 30 Leicester Square, London, W.C.2.

WAGES CLERK, conversant with building and civil engineering industries, REQUIRED for head office of large organisation in London, N.W.6. Salary according to age and experience. Excellent pension and life assurance schemes.—Write full details of age, experience, and salary required to Box V.2419, "The Contract Journal."

CIVIL ENGINEERING AGENT REQUIRED, aged 35/45, with good general experience, including surveyor and measurements for interim and final accounts. The position offers good prospects of directorship after a trial period, details of which will be given at interview.—Apply with details of age, experience, and salary required, to R. E. ROWLANDS, LTD., C.E. Contractors, Marlborough, Wilts.

SENIOR SITE AGENTS

Capable men accustomed to handling building contracts in the region of £500,000 are required by leading building contractors for their Manchester branch. Superannuation scheme in operation. — Apply, in writing, with full details, to:

BERNARD SUNLEY AND SONS, LTD.,
Portland Street, Manchester, 1.

THREE CIVIL ENGINEERING ASSISTANTS are REQUIRED for a large dock contract near Middlesbrough. The work is varied and interesting, and the prospects in an expanding company are excellent. Applicants should be between the ages of 22 and 27, and either hold an equivalent qualification to Part II, A.M.I.C.E., or have had at least two years' site experience with a contractor on civil engineering works.—Apply in writing, giving age, brief details of experience, and salary required, to the Civil Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., Tees Dock—No. 1 Quay, Grangetown, near Middlesbrough, Yorks. All applications will receive acknowledgement, and interviews will be arranged at Middlesbrough or London as required.

BUILDING AGENT.—Applications are invited from suitably qualified men for the post of BUILDING AGENT on a large school contract in Somerset. This contract is of two years' duration, but the successful applicant will be offered a permanent appointment after he has satisfactorily completed six months' probationary service. The nature of the work to be undertaken calls for a comprehensive knowledge of all trades, including specialist sub-contractors, and the applicant must be capable of instituting and maintaining detailed planning and cost control procedures.—Applications in writing, giving details of age, training and previous appointments, should be addressed to Box V.2437, "The Contract Journal."

CIVIL ENGINEERS. FOREMEN

Vacancies on contracts for men with experience in one or more of the following: Trunk roads, large R.C. bridges, rock tunnels and jetty work.—Write, giving particulars, to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, Westminster, S.W.1.

ENGINEERS.—Engineers REQUIRED for large contract shortly to commence in West London. Applicants must be used to accepting responsibility and working with maximum accuracy. Excellent opportunity for promotion and advancement for the suitable applicants.—Apply in writing to Box V.2449, "The Contract Journal."

TURRIFF CONSTRUCTION CORPORATION, LTD., has vacancies for several top-grade SITE CLERK/CASHIERS. Contracts in Birmingham and Aylesbury. Appointments are also to be made in other parts of the country. Salaries to match the qualifications and experience of the candidate. Prospects and permanency are offered to men interested in a career with a progressive group of companies operating extensively in the U.K. and overseas.—Write personal and experience details to the Group Personnel Manager, Budbrooke Road, Warwick.

LEADING industrial crawler tractor distributors have an opportunity for man of ability, integrity and character, to REPRESENT them in a territory which includes N.E. London and East Anglia. We have in mind a man between 35 and 50, preferably living in the territory. This is a permanent and first-class appointment in a team that any man would be proud to belong to.—Write in confidence to Box V.2435, "The Contract Journal."

STRUCTURAL DESIGN ENGINEER

RICHARD COSTAIN, LTD., have two vacancies for STRUCTURAL DESIGN ENGINEERS to work at their head office in London. Interesting variety of work in a specialised department, including advanced design and novel construction techniques. Applications are invited from qualified engineers, preferably aged 27-32, who have had at least four years' design and/or site experience.—Please address applications to:

Personnel Officer,
RICHARD COSTAIN, LTD.,
111 Westminster Bridge Road, London, S.E.1.

SENIOR ENGINEER/SUB-AGENT REQUIRED for power station contract by major firm of civil engineering and building contractors. This is a permanent appointment with prospects of rapid promotion to Agent and has ample scope for further advancement thereafter for the right applicant. Write Box V.2434, "The Contract Journal."

CIVIL ENGINEERING contractors expanding their organisation, WISH to appoint a SENIOR SITE ENGINEER for roadworks and main drainage contracts in the Oxfordshire area. Salary range of £1,000/£1,250 p.a. Permanent and progressive post, with superannuation scheme.—Write in confidence, stating age, full details of experience, and past employers, etc., to Box V.2433, "The Contract Journal."

APPOINTMENTS VACANT

TIMEKEEPERS WANTED by civil engineering contractors, for works in the North Midland area. Good opportunities for go-ahead individuals.—Write Box V.2432, "The Contract Journal."

AGENT/ENGINEER REQUIRED for bridge and road contract in Oxford. Applicants must be experienced in this type of work. Personal transport will be provided, and there is a pension and life assurance scheme in operation.—Write details of age, experience, etc., in confidence, to Box V.2431, "The Contract Journal."

SENIOR REPRESENTATIVES REQUIRED for contractors' plant organisation in North Midlands, with numerous agencies, including new agency for earthmoving equipment. Previous experience and connection essential. Generous salary, car, profit-sharing and pension scheme. — Write Box V.2430, "The Contract Journal."

CONTRACTS CLERK REQUIRED for consulting civil engineers. Applicants should be between 25 and 30, and must have had site clerical and costing experience on civil engineering contracts. — Apply SIR WILLIAM HALCROW AND PARTNERS, Consulting Civil Engineers, Alliance House, Caxton Street, London, S.W.1. Tel.: Abbey 4061.

R. CRIPPS AND CO., LTD., REQUIRE a SENIOR ADMINISTRATIVE ASSISTANT for the construction equipment sales office at Nottingham. Experience on the sales side of contractors' plant desirable; ability to deal with correspondence and office routine essential. Salary according to age and experience, but in range £850-£1,100 p.a., with contributory pension scheme. — Write, with fullest particulars, to Sales Manager—Construction Equipment, R. CRIPPS AND CO., LTD., P.O. Box 62, Nottingham.

WIMPEY

Applications are invited from SENIOR BUILDING AGENTS and GENERAL FOREMEN for contracts in London and Home Counties. Applicants must have considerable experience of city building, including multi-storey developments. Excellent prospects for right men, with superannuation scheme after probationary period.—Applications to:

The Manager, Department 1,
GEORGE WIMPEY AND CO., LTD.,
27 Hammersmith Grove, London, W.6.

STAVERTON CONTRACTORS (WALES), LTD., REQUIRE the services of an AGENT/GENERAL FOREMAN for a large contract in the Swansea area. Must be used to reinforced concrete construction and handling contracts to the value of £150,000. Continuity of employment for the successful applicant, who will, after a probationary period, be invited to participate in our profit-sharing and superannuation schemes. Write, giving fullest possible details, to the Contracts Manager, Staverton Contractors (Wales), Ltd., Imperial Buildings, St. Mary Street, Cardiff. All applications treated in confidence.

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN), LTD., invite applications from COST AND BONUS SURVEYORS experienced in measuring completed site works and assessment of targets. Permanent and pensionable positions with good prospects.—Apply in confidence, stating age, experience in detail, and salary required, to Personnel Manager, (CJ/K3438), 1 Queen Anne's Gate, London, S.W.1.

SOUTH-WEST ENGLAND. — National contractors invite applications from experienced men for the following positions for their local office: SUPERVISORS, preferably engineer-trained, with good experience in the control of a number of medium- and large-sized reinforced concrete contracts essential, together with knowledge of modern methods of construction and planning; GENERAL FOREMEN, preferably carpenter-trained and with experience in charge of reinforced concrete construction; SENIOR PLANNING ENGINEERS, for pre-estimate planning, detailed programming of structural and building contracts, including co-ordination of site planning engineers. All trades, with specialised knowledge of reinforced concrete work. The appointments will be to the permanent staff and offer interesting and varied work, with excellent opportunities for increased responsibility and/or advancement to more senior positions, with appropriate remuneration. Please send full details, in confidence, to Box No. SW3609, A.K. Advertising, 212a Shaftesbury Avenue, W.C.2.

E. S. GATES, LTD.

Vacancies for AGENTS and GENERAL FOREMEN. Top-grade AGENTS and GENERAL FOREMEN REQUIRED for several interesting contracts varying from £50,000-£250,000 in Bucks., Berks. and Herts. Only men with first-class experience and references need apply to:

E. S. GATES, LTD.,
Chalfont Station Road, Amersham, Bucks.

AGENTS and ENGINEER-AGENTS REQUIRED for contracts in Midlands. Thoroughly experienced reinforced concrete, modern road construction. Excellent prospects to right men in expanding organisation.—Full particulars, salary, when free, to MARTIN COWLEY, LTD., Hanford, Stoke-on-Trent.

LEADING firm of building and civil engineering contractors have a vacancy in their structural engineering section for a SENIOR SURVEYOR well experienced in the preparation of interim calculations, measurement of variations, and preparation of final accounts. The successful applicant will be based in the Central London head office and will be given the immediate responsibility for a new and interesting project in Central London. The position is permanent and pensionable, and offers good opportunities for progress within an expanding organisation. Please send full details, in confidence, to Box No. LF.3605, A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

CLERKS OF WORKS, with experience of steel-framed and reinforced concrete structures, REQUIRED for projects starting in: London area (a) November, 1960, (b) January, 1961; Bedfordshire (a) November, 1960, (b) December, 1960; Mid-Lancashire (a) August, 1960, (b) November, 1960; Glasgow area (a) August, 1960, (b) November, 1960. Duration of contracts 12-15 months. Write, giving particulars of experience, and salary required, to Box V.2441, "The Contract Journal."

CIVIL ENGINEERING AGENT/ENGINEER REQUIRED. Excellent prospects with expanding company for energetic man. Must have good experience in all general engineering, setting-out, accounts control, etc.—Write Box V.2443, "The Contract Journal."

APPOINTMENTS VACANT

CIVIL ENGINEERING contractors REQUIRE ASSISTANT CIVIL ENGINEERS for site works in the Midlands and South. Opportunities for design experience occur from time to time. Staff superannuation and life assurance scheme (non-contributory) in operation. Preference in this instance given to young men. — Write, giving age, qualifications, training and experience, to Box V.2440, "The Contract Journal."

JUNIOR SURVEYOR REQUIRED as ASSISTANT to small works Estimator. Experience in taking-off from drawings and specification essential. Knowledge of pricing not necessary but desirable. Superannuation scheme after probationary period. — Write, giving details of experience, references, and salary required, to the Secretary, HIGGS AND HILL, LTD., Crown Works, South Lambeth Road, London, S.W.8.

WORK STUDY ENGINEER REQUIRED by a leading manufacturer and contractor of the building industry. The position offers excellent opportunities to a Work Study Engineer between the ages of 25/35 who has had experience in building and civil engineering and is prepared to travel within the United Kingdom. Initial salary will depend on experience and qualifications. Full details of experience and career to date in chronological order, should be submitted. The successful candidate, after training to the company's requirements, will be responsible for the application of improved techniques in the contracting division. — Write Box V.2444, "The Contract Journal."

WORLD-WIDE foundation contractors REQUIRE ENGINEER for their London headquarters works office. Applicants should be qualified, with a minimum of five years' civil engineering experience. A good practical knowledge of soil mechanics is desirable. A five-day week is operative, and the firm maintain a generous pension and health scheme, with free life assurance. Salary £1,200 to £1,500, with good prospects for the right man.—Applications, giving details of training and experience, to FRANKIPILE, LTD., 39 Victoria Street, London, S.W.1.

ENGINEER/AGENT and GENERAL FOREMAN REQUIRED for trunk water main contract, Devon. Must be fully experienced in this class of work.—Write Box V.2442, "The Contract Journal."

SALES REPRESENTATIVE—Road and Building Materials. An additional Sales Representative is REQUIRED to call upon builders, public works and civil engineering contractors in the West Riding of Yorkshire. Applicants for this interesting position should, preferably, have some knowledge of the trade. Initiative and drive are essential. This is a pensionable appointment with good prospects. Company car. Applications, with full particulars of previous positions held, present salary, etc., to the Secretary, CAWOOD WHARTON AND CO., LTD., Southlands, Harrogate.

ASSISTANT SURVEYOR WANTED, capable of land surveys and plotting, and design of roads and sewers sections, etc. Good salary, pension schemes, luncheon vouchers, etc.—Write Chief Land Surveyor, Box V.2370, "The Contract Journal," or 'phone Perivale 4448 L.A.W.

THE LONDON FERRO-CONCRETE CO., LTD. AGENTS.—Several vacancies now occur, due to rapid expansion, for experienced young Agents able to control the construction of precast and in-situ reinforced concrete structures up to £100,000. Top salaries will be paid to good men, and there are excellent prospects for promotion to Contract Supervisor.—Details of age and experience should be sent to the Contracts Manager, Maxted Close, Hemel Hempstead, Herts.

THE LONDON FERRO-CONCRETE CO., LTD. BONUS ENGINEER.—Applications are invited for the above position from Work Study Engineers, Surveyors or other applicants with experience of operating bonus schemes in the building and civil engineering industry. The successful candidate will be responsible for developing a new bonus scheme for various sites throughout the country. — Applications should be addressed to the Contracts Manager, Maxted Close, Hemel Hempstead, Herts.

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For Advertisements received too late for classification see page 533

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DISPOSAL OF PLANT.

The County Council invite TENDERS for the FOLLOWING VEHICLES and PLANT:—
Two 5-ton Morris Diesel Lorries.
One 10cwt. Morris Van.
Five Opperman Motocarts.
Two $2\frac{1}{2}$-ton Barford-Perkins Footpath Rollers.
Three $2\frac{1}{2}$-ton Aveling-Barford Footpath Rollers.
Two Johnson Power Rammers.
One Smith Tractor-drawn Sweeping Broom.
Two Roller Trailers.

Further particulars and Form of Tender can be obtained on application to the County Surveyor, County Buildings, Stafford.

Tenders, on the appropriate form, in plain sealed envelopes, and marked "Plant," must reach me by 10 a.m. on MONDAY, the 22nd August, 1960.

T. H. EVANS,
Clerk of the Staffordshire County Council.

County Buildings,
Stafford.
July, 1960.

COUNTY BOROUGH OF HASTINGS.

DISPOSAL OF FOOTPATH ROLLER.

HASTINGS CORPORATION have for DISPOSAL at their Frederick Road Depot, Hastings, One Series A Aveling-Barford Petrol FOOTPATH ROLLER, purchased in 1934 (approx. 2 tons).

Tenders, in plain sealed envelopes, bearing no name or mark to indicate the sender, endorsed "Tender for Footpath Roller," must be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 10th August, 1960. The successful tenderer will be responsible for removing the roller from the Depot.

The Corporation do not bind themselves to accept the highest or any Tender.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

INVENTIONS

INDUSTRIAL ENGINEERS OF REPUTE invite, in strict confidence, DETAILS of INVENTIONS, with object of manufacturing and world distribution.
Write Box K.L.517, "The Contract Journal."

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TOP SOIL. — 200,000 cubic yards available, delivered in large and small quantities. Soil supplied ex site in approved cases.—LATHAM AND CO. (CONTRACTORS), LTD., Westward House, Guildford Rd., Lightwater, Surrey. Bagshot 2037 and 2400.

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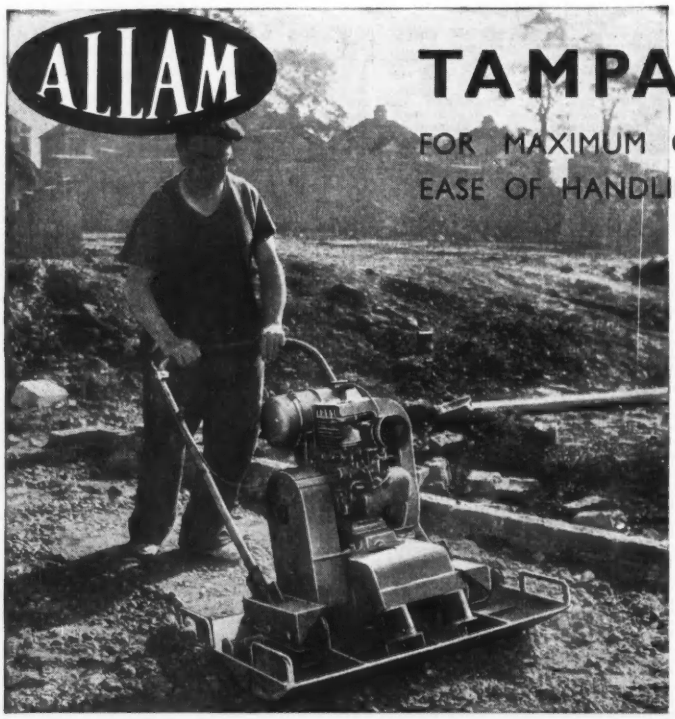

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SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the CONSTRUCTION of Two BUS BAYS in REINFORCED CONCRETE on HAMPTON COURT WAY (A.309). Documents, returnable by the 20th AUGUST, 1960, obtainable from COUNTY ENGINEER, County Hall, Kingston-upon-Thames.

BOROUGH OF HENDON.

INVITATIONS TO TENDER

(a) MODEL YACHT POND, RUSHGROVE PARK, N.W.9.
(b) SURFACE WATER RELIEF SEWERS, GREYHOUND HILL AND HENDALE AVENUE, N.W.4.
(c) PARSON STREET IMPROVEMENT WORKS.

The BOROUGH COUNCIL invites TENDERS for the FOLLOWING:—

(a) For the Construction of the Model Yacht Pond at Rushgrove Park, N.W.9.
(b) For the Construction of 12in. dia. Surface Water Relief Sewers in Greyhound Hill and Hendale Avenue, N.W.4.
(c) For the Widening and Improving of Parson Street, Hendon, N.W.4, from Ashley Lane to Great North Way. The contract comprises the Construction of approx. 3,000 sq. yd. of 8in. thick Reinforced Concrete Carriageway surfaced with 2½in. thick Hot Rolled Asphalt, together with Kerbing, Paving, Drainage and other incidental works.

The Forms and Conditions of Tender, Specifications and Bills of Quantities will be issued by, and Plans may be inspected at the Offices of, the Borough Engineer and Surveyor, to whom applications for the documents must be made in (a) and (c) by 15th AUGUST, 1960, and (b) by 22nd AUGUST, 1960, accompanied by a deposit of Two Guineas in respect of each of the services for which it is proposed to tender, which will be returned on receipt of a bona-fide Tender on the form provided, and not subsequently withdrawn.

Cheques should be made payable to Hendon Corporation.

Tenders must be received in (a) above, by 31st AUGUST, 1960; (b) above, by 5th SEPTEMBER, 1960; (c) above, by 29th AUGUST, 1960.

Each of these invitations to tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4.

BOROUGH OF CONWAY.

OMNIBUS SHELTERS.

TENDERS are invited for the SUPPLY and DELIVERY only of Six CANTILEVER BUS SHELTERS, each approx. 15ft. in length, complete with heavy reinforced glazing. Tenderers desiring to quote an alternative price to include erection may do so.

Tenders, giving full details, in plain sealed envelopes, endorsed "Bus Shelters," to be delivered to the undersigned not later than FRIDAY, 19th August, 1960.

R. COLIN GREENSMITH,
Town Clerk.

"Bodlondeb,"
Conway.

BOROUGH OF HORNSEY.

TENDERS are invited for the EXTERNAL RE-DECORATION of 116 FLATS (Four Four-storey Blocks and Three Seven-storey Blocks) at "HILLCREST," NORTH HILL, N.6.

Tender documents obtainable from the Borough Engineer and Surveyor, Town Hall, The Broadway, N.8.

Tenders to be submitted to me by Noon on MONDAY, the 22nd August, 1960.

W. B. MURGATROYD,
Town Clerk.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 714—12 ONE- AND TWO-STOREY DWELLINGS—
BELL HOLLOWAY ESTATE, NORTHFIELD.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 9th AUGUST, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, the 9th September, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham.

BUILDING SURVEYORS (two), experienced, REQUIRED for progressive builders and contractors, for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from inquiry to final account. Apply in writing to RICHARDSON, Herbert House, Slade Green, Erith, Kent.

REINFORCED CONCRETE DETAILERS REQUIRED in office of consulting engineers. Good salaries, luncheon vouchers, pension scheme, five-day week. Holiday arrangements honoured.—'Phone for appointment: T. F. BURNS AND PARTNERS, ABBey 4140.

LIVE SALESMAN REQUIRED for contractors' plant department. Permanent, progressive, pensionable post. Housing available. — FRED. WATKINS (ENGINEERING), LTD., Coleford, Glos.

WILLMENT BROS., LTD., REQUIRE a SURVEYOR, aged about 25-30, to measure excavation in London.—Based near Blackfriars, but apply initially to 462 London Road, Isleworth, Middlesex.

BOROUGH OF TWICKENHAM.

PRIVATE STREET IMPROVEMENT WORKS.

The CORPORATION hereby invite TENDERS for the MAKING-UP of CONWAY ROAD, Hounslow.

The works comprise the Construction of a Carriageway (approx. 3,000 sq. yd.), Footways, Verges, Kerbing, and approx. 1,000 lin. yd. of Sewers.

Plans may be inspected, and Specification, etc., obtained upon application to MR. A. S. KNOLLES, B.Sc., M.I.C.E., Borough Engineer, Municipal Offices, Twickenham, and the payment of Two Guineas deposit, returnable on receipt of a bona-fide Tender.

Tenders, in envelopes supplied and not bearing any name or mark indicating the sender, to be delivered to the undersigned not later than 10 a.m. on THURSDAY, 1st September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,
Town Clerk.

Municipal Offices,
Twickenham.
August, 1960.

BOROUGH OF HESTON AND ISLEWORTH.

PUBLIC CONVENIENCE—BROADWAY, HOUNSLOW.

TENDERS are invited for the ERECTION of a PUBLIC CONVENIENCE. Firms wishing to tender should apply to the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow. Tender documents will be forwarded on or about 18th August, 1960. Tenders must be delivered to me, in the envelope provided, by 10 a.m. on 10th SEPTEMBER, 1960.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

WILLENHALL URBAN DISTRICT COUNCIL.

NEW INVENTION ESTATE, SECTION 1—
SOILING AND TURFING OF CORNER PLOTS AND OPEN SPACES.

TENDERS are invited for the LEVELLING, SOILING and TURFING of 4,825 sq. yd. of OPEN SPACES and CORNER PLOTS on the New Invention Housing Estate.

Plans and Conditions of Contract may be examined at, and Specification, Form of Tender and Bills of Quantities obtained from, the Office of the Engineer and Surveyor, Town Hall, Willenhall, during normal office hours.

Tenders, in plain sealed envelopes endorsed "New Invention Estate—Turfing," must be delivered to the undersigned by not later than Noon on SATURDAY, the 10th September, 1960.

JOHN R. RIDING,
Clerk of the Council.

Town Hall,
Willenhall, Staffs.

TENBURY RURAL DISTRICT COUNCIL.

WATER SUPPLY SCHEME—STAGE II.

CONTRACT NO. 1.

The Council invite FIXED-PRICE TENDERS from experienced contractors, for the LAYING of approx. 30 miles of 6in., 4in. and 3in. dia. ASBESTOS-CEMENT WATER MAINS, for the CONSTRUCTION of a 185,000-gallon REINFORCED CONCRETE RESERVOIR and a BRICK PUMPING STATION, and for the execution of appurtenant works.

Tender documents may be obtained from the Consulting Engineers, MESSRS. JOHN DOSSOR AND ASSOCIATES, 54 Broad Street, Worcester, upon payment of a deposit of Five Guineas (by cheque, made payable to Tenbury R.D.C.), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents loaned to the contractor.

Applications must be received not later than First Post on MONDAY, 15th August, 1960, and must be accompanied by the names and addresses of two Engineers for whom works of a similar nature and magnitude have been undertaken.

Drawings may be inspected at the Offices of either the Council or the Consulting Engineers, during normal office hours, but technical queries can be answered only at the latter.

Tenders, in plain sealed envelopes endorsed "Water Supply Scheme—Stage II," are to be delivered to the Office of the undersigned not later than First Post on MONDAY, 12th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender, or to be responsible for any expenses incurred by persons tendering.

R. BOSTOCK,
Clerk to the Council.

Council Offices,
Tenbury Wells,
Worcs.

COST SURVEYOR, experienced, REQUIRED for head office appointment in S.W. London, with international concern. Must be fully conversant with all aspects of civil engineering. Age 24-28.—Reply THYSSEN (Ref. U.C.O.), Wesleigh House, 42 Coombe Road, New Malden, Surrey; or 'phone Malden 8640.

ESTIMATOR (A.M.I.C.E./Graduate preferred) REQUIRED by West Cheshire civil engineering and building contractors. Applicants, preferably aged 25-35, should have had contract experience using modern methods, and be adaptable to varied and interesting tendering over a wide price range. Permanent position with pension scheme. Modern office. Good salary and scope for experienced Engineer. Write, giving summary of training and experience, present salary, etc., to Box V.2445, "The Contract Journal."

SITE ENGINEER REQUIRED for civil engineering contracts in London area.—Applications, giving details of experience, to CAFFIN AND CO., LTD., 25 Craven Street, W.C.2.

ENGINEER REQUIRED for setting out on road and marine works, Essex. Would take Graduate as Assistant under agreement.—Apply: W. A. DAWSON, LTD., Luton.

OFFICE MANAGER for civil engineering contractors' office, S.W.1 area. Applicants must have held similar position in contractors' head office, with experience in general office organisation and costing, etc. The position offers an interesting and progressive career to successful applicant.

Write Box V.2455, "The Contract Journal."

COUNTY BOROUGH OF SOUTHAMPTON.

QUOTATIONS are invited from metal window specialists for the FOLLOWING:

(a) Metal Windows to be supplied only and dealt with under Clause 22 of the R.I.B.A. Contract (Nominated Suppliers); and
(b) Supply and Fixing of Metal Curtain Walling and Windows, Doors and Screens, as a Sub-Contract to Main Contract (R.I.B.A. Contract plus Supplemental Conditions available for inspection).

Both at Hightown Secondary School.

Forms and Particulars from Borough Architect, on written application by 11th AUGUST, 1960.

Applications will only be accepted if for both (a) and (b) together, and both Quotations will be considered together.

Both Quotations to the TOWN CLERK, Civic Centre, Southampton, by 12 Noon on 29th AUGUST, 1960.

METROPOLITAN BOROUGH OF CAMBERWELL.

ASPHALT PAVING WORKS.

PARKHOUSE STREET, S.E.5.

TENDERS are invited for the FOLLOWING, to be laid on existing foundations:—

(a) Hot Rolled Asphalt Base Course (B.S.S. 594-1958), 160 tons approx.
(b) 1½in. thick Wearing Course, Hot Rolled Asphalt (B.S.S. 594-1958), 1,518 sq. yd. approx.

Contract documents from BOROUGH ENGINEER AND SURVEYOR, Town Hall, Camberwell, S.E.5. Closing date, 22nd AUGUST, 1960.

BOROUGH OF WREXHAM.

RESURFACING OF CARRIAGEWAYS.

CHESTER STREET (A.483)—BODHFRYD TO HIGH STREET.
RUABON ROAD (A.483)—EMPRESS ROAD TO CEMETERY ENTRANCE.

FIXED-PRICE TENDERS are invited from experienced contractors for the MACHINE-LAYING of approx. 4,800 sq. yd. of HOT ROLLED ASPHALT CARPETING 1¾in. thick, together with incidental works of Taking-up existing Asphalt Surfacing, Repairing Concrete Base and Expansion Joints, Burning-off, Provision of Underlay, and the Resetting of Manholes, Gullies and Boxes to new levels.

The General Conditions of Contract may be inspected, and Specification, Bills of Quantities and Form of Tender obtained from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in the sealed envelope provided, must be delivered to the undersigned not later than 12 Noon on MONDAY, 15th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
July, 1960.

CITY OF MANCHESTER.

TENDERS invited for EXTENSION to ROOF of TOILETS and INSTALLATION of new URINAL at ELYSIAN STREET PRIMARY SCHOOL, OPENSHAW. Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tender returnable by AUGUST 19th.

THE RURAL DISTRICT COUNCIL OF MALDON.

3IN. WATER MAIN EXTENSION—TOLLESBURY.

TENDERS are invited, on a Fixed-price Basis, for the SUPPLY and LAYING of approx. 1,560yd. of 3in. dia. ASBESTOS-CEMENT WATER MAIN, together with Valves, Hydrants, etc.

Bill of Quantities, Specification and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Wantz Road, Maldon, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender.

Tenders, in envelopes provided, must reach the undersigned not later than TUESDAY, 16th day of August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

L. H. HISCOTT,
Clerk of the Council.

Council Offices,
Wantz Road,
Maldon, Essex.
26th July, 1960.

BAKERS.—There is a vacancy in the contracts department for an additional ASSISTANT to work with the Contracts Manager. Applications are invited from experienced men of good education and professional experience in the construction of sports-fields and gardens. Salary will be fixed according to experience; a car provided if required; and business expenses paid. The appointment is permanent and there is a contributory pension scheme.—Applications in confidence, with full particulars, to A. A. Austin, Contracts Manager, BAKERS NURSERIES, LTD., Codsall, Wolverhampton.

A FIRST-CLASS ESTIMATOR for roads and playing fields contractors. Must be keen and energetic. Good wages will be paid to the man who is prepared to work hard.—CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14-26 Henrietta Street, Coventry. Tel.: Coventry 88473.

REQUIRED immediately.—A first-class Blaw Knox PF90 OPERATOR. Top wages, subsistence and travelling allowance to the right man.—CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14-26 Henrietta Street, Coventry. Tel.: Coventry 88473.

BAKERS.—Vacancies exist in the sportsground and garden contracts department for skilled FOREMEN and CHARGEHANDS. Permanent employment; good rates and working conditions, and a contributory pension scheme.—Applications, with full particulars, to Contracts Manager, BAKERS NURSERIES, LTD., Codsall, Wolverhampton.

ASSISTANT ESTIMATOR for heavy civil engineering works REQUIRED by MARPLES, RIDGWAY AND PARTNERS, LTD. Graduate with minimum of four years' site experience would be considered for training. Minimum remuneration £900 p.a.—Brief particulars to No. 2, Lygon Place, Grosvenor Gardens, London, S.W.1, quoting Ref. HIJ/1.

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

EDUCATIONAL BUILDING

THE Ministry of Education have a good story to tell of the progress made during the past 10 years in educational building. "We have built more new schools more quickly than ever before in our history" the Minstry state in their annual report. But perhaps the greatest achievement has been in relation to costs. Today's new buildings are only half as expensive in real terms as they were in 1949.

Until 1949, there were no limits of cost per place. The local authorities and the Churches sent their projects to the Ministry for final approval with an estimate attached. The problem facing the Department was to decide why the costs of apparently comparable projects needed to vary by almost 200 per cent. Looking back the answer is obvious—building costs, methods of building and educational standards had changed so much that no one knew how much a school place ought to cost, or where the money was going on the more expensive jobs.

The Ministry therefore took on the job of analysing areas and costs, and of checking their conclusions by actually designing and building a small number of schools, so as to be in a position to lay down realistic limits of cost per place and help the local authorities and the Churches keep within them.

The cost limits together with two other key controls—the building programme and the building regulations—enabled designers to be set free from the time-wasting business of having to justify their decisions, often when it was already too late to make changes, to the Ministry watchdogs. The Ministry decided in advance what wanted watching, described their requirements in simple language and then undertook not to make changes at the last moment. Today, if a new school is included in one of the national school programmes, provides the minimum required standards and is within the limit of cost per place, final approval to the start of work on the site is given without further ado. The designer knows where he stands before he starts work on the drawing board.

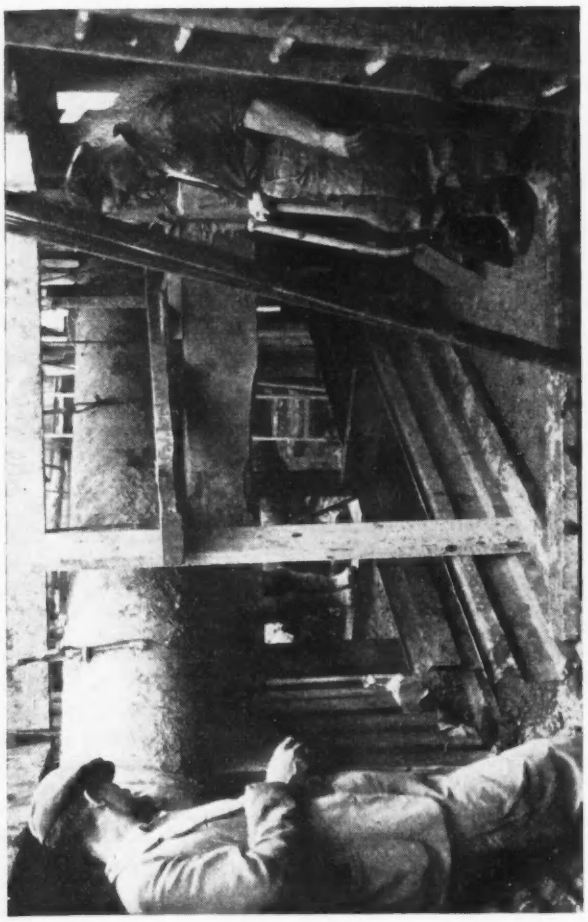
With economy has been combined quality and the lessons learned from school building are now being applied to technical and training colleges. In the future new requirements will doubtless have to be met. There will be new ideas on design, new materials to work with and new problems to solve—in fact the pace of change will be relentless. But there is no reason why this story of success—to which the local education authorities, the Churches, the Ministry, architects, teachers, builders and administrators have contributed—should not continue. To quote the Ministry "Finality in educational building is to be neither expected nor desired."

Financing The Tunnel

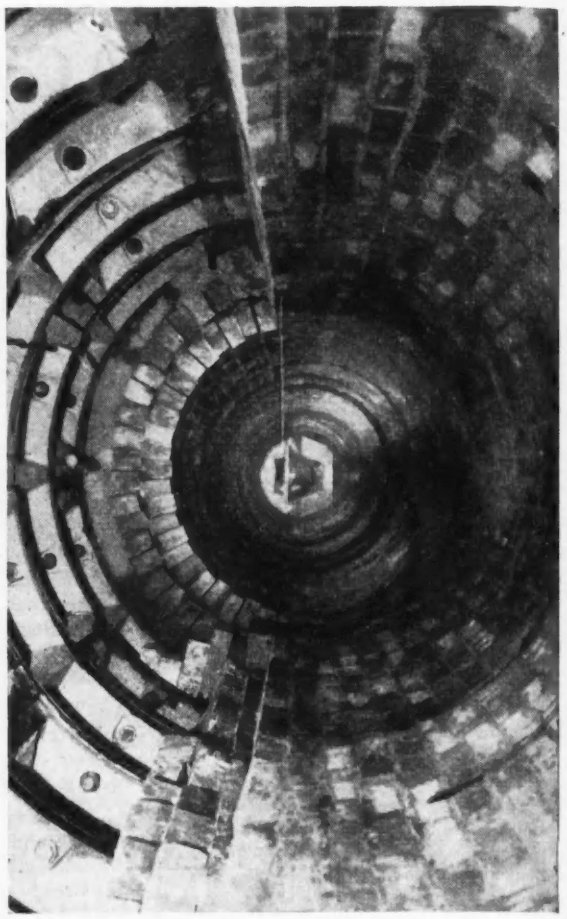
THE Channel Tunnel Study Group's revised proposals for financing the proposed tunnel, submitted to the British and French Governments, remove the principal reason for the opposition to this project. Few will agree with the view expressed by Major-General Sir Edward Spears that a Channel Tunnel would be an "intolerable strategic danger" to Britain, now that we live in a world of H-bombs and rockets.

Commenting on the report made by the Study Group earlier in the year, we said "Although we would like to see engineers and contractors being given an opportunity to tackle such an engineering venture we cannot help feeling that public money which would have to be spent by British Railways and the Government could be put to better use in developing the railway and road system of the country."

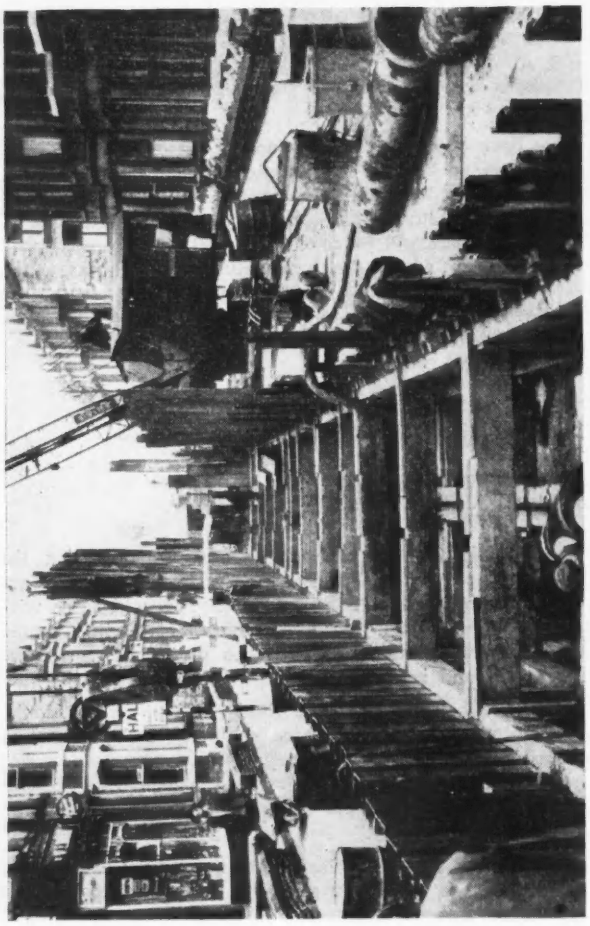
If these latest proposals of the Group mean that no or very little public money will be involved there is no reason why the go-ahead signal should not be given by the Governments concerned.



18in. diameter gas main crossing trench over 57in. diameter sewer.



Brick lining to segmental heading



Work in progress on the West End section

60in. diameter outfall sewer (left) and 48in. diameter West End inlet sewer (right).

MAJOR SCHEME SOLVES DRAINAGE PROBLEMS AT MORECAMBE

Inauguration of £2½m. System

A SEWERAGE scheme, the largest project yet undertaken by Morecambe and Heysham Borough Council, was officially inaugurated last week by the Mayor, Councillor H. M. Robinson.

The scheme was the subject of a public inquiry held in December, 1937, following which it was approved in principle and allowed to proceed in stages, the first two major contracts in respect of the Schola Green Lane pumping station and the sea outfall commencing only a few months before the outbreak of war in 1939.

For a time the Ministry allowed the scheme to continue as normally as possible, but as conditions regarding supply of materials and labour became worse, it was decided only to carry on to the extent of making safe the work already commenced.

There was a lull for a few years until in 1947 a contract was let for the balance of the discontinued work at the main pumping station. Since then, as Government restrictions, credit squeezes and the like have allowed, the scheme has proceeded until at last in 1960 it has been completed—21 years after the first contracts were placed.

Two Drainage Zones

The Borough of Morecambe and Heysham comprises two main drainage zones, the northern zone coinciding approximately with the old Borough of Morecambe and the southern zone being very much the old Urban District of Heysham prior to the constitution of the present Borough in 1928. The new sewerage scheme is only in respect of the northern zone.

Because of the topography of the Borough it is not possible to discharge to the sea at all states of the tide the bulk of the storm water run-off. The area has therefore been drained on the combined principle in which sewage and surface water are dealt with in a common pipe. Furthermore, the various main trunk sewers could only be brought together at a low point, some ½-mile inland, at Schola Green Lane. Consequently, all sewage and surface water arriving at this central collecting point has to be pumped so as to enable it ultimately to discharge to the sea.

Seen with the Mayor at the inauguration ceremony are (right to left) Sir Arnold Waters, the consulting engineer, Mr. W. Kilvington, borough engineer and surveyor, and Mr. A. Nicol, resident engineer.

In broad principle, therefore, the present system is necessarily very much the same as that in being in 1932 when the first steps were taken towards its implementation. The sewered portions of the town at that time were drained to a small pumping station at Schola Green Lane, the flows of sewage and storm water up to the capacity of the pumps provided being lifted to storage tanks and discharged via a 24in. diameter outfall pipeline to the Bay near Reap Skear, some 1,200yd. from the sea wall.

The total capacity of the pumping plant installed was about 3,000 gallons per minute, and had become quite inadequate to deal with flows from a rapidly expanding town. Consequently, serious difficulties—at times involving very considerable flooding of basements, etc.—had developed and had to be overcome.

Only in one area away from the shoreline was it found possible to allow for any appreciable amount of surface water from projected housing development to be discharged direct to water-courses. This was the land lying between the Heysham branch railway and Westgate. To achieve this, however, it was necessary to widen, deepen and form bridge crossings over the main dyke from Outmoss Lane to the River Lune—a distance of rather more than two miles.

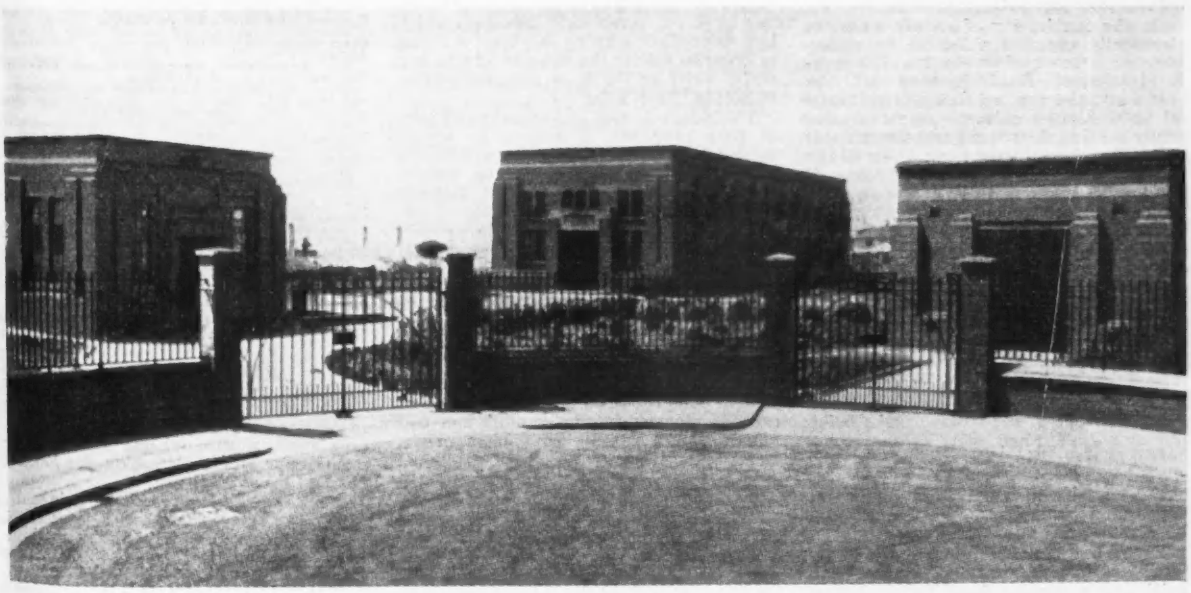
New Scheme

The new scheme provides the requisite trunk sewers of adequate capacity to convey sewage and storm water from the various drainage areas in the Borough to the new pumping station at Schola Green Lane. An idea of the size of this part of the scheme may be obtained from the fact that the diameters of the sewers in the vicinity of the pumping station are: from West End, 4ft. 9in.; from Central and Bare, 4ft. 9in.; from Westgate, 4ft. 9in.

On reaching the Schola Green site all flows pass through screening and detritus tanks in which the bulk of the grit from roads, etc., is settled out and removed, by pumping, to the outlet culvert to the sea, thereby reducing its tendency to accumulate in the main pump wells and cause undue wear on the main pumps.

In the same units floating solids are removed by mechanically raked screens and are conveyed to disintegrators for maceration before being returned to the inflowing sewage.

On leaving these tanks the flows pass to either of two pump wells of 150,000 gallons total capacity and are normally pumped, by means of a variety of sizes



General view of the Schola Green Lane pumping station

of pumps all operated automatically by the level of the liquid in the pump wells, into an outlet culvert which formed part of the original works. This has now been extended by a 5ft. diameter steel outfall sewer, some 2,000yd. long, laid via Balmoral Road and Albert Road to the sea wall, and thence across the foreshore to discharge below low water mark at a point near Reap Skear and close to the old outlet 1,383yd. from the sea wall.

The pumps range in size from 1,200 to 20,000 gallons per minute, the normal total capacity being 49,000 g.p.m., as compared with the original total capacity of 3,000 g.p.m. The largest installed motor is of 95-h.p., the two largest pumps being driven by diesel engines of 160-h.p. and 330-h.p.

These pumps are installed in a dry chamber basement to engine and pump house No. 1, which is some 124ft. by 37ft. inside and accommodates the motors, engines, electrical apparatus and auxiliary gear.

Float observations carried out over lengthy periods in the design stage of the scheme indicated that the optimum period for discharging to the sea would be between one hour after high water to three hours before the succeeding high water.

On the termination of such a period an electrically operated valve in an underground chamber close to the Ellesmere Road-Balmoral Road junction will be closed and the pumped flow will gradually fill up the outlet culvert above the valve finally causing the sewage and storm water to overflow into storage tanks—part of the original works, but cleaned and repaired, and provided with additional inlet arrangements and outlet pipework—in which the liquid up to a volume of just over 2,000,000 gallons will normally be retained until the commencement of the next optimum period of discharge. The Ellesmere Road valve will then be opened allowing the pumped flows and the contents of the tanks to be discharged to the sea until three hours before the next high water.

Second Pump House

In the event of the storage tanks being full at a time when there is continuing heavy rainfall coincident with high tidal conditions, the levels are such that discharge to the sea of the flows pumped at engine and pump house No. 1 might not be possible gravitationally.

Engine and pump house No. 2 has therefore been provided so that at such times two axial flow pumps, each of 24,500 gallons per minute capacity, can lift the flows, through a 5ft. diameter rising main, to a discharge tank of some 60,000 gallons capacity on a high point of the Schola Green Lane site, at a level from which it is possible to discharge to the sea at all states of the tide through a 5ft. diameter pipeline, 900yd. long, which is laid to connect with the sea outfall sewer at the Ellesmere Road valve chamber.

This second pump house, 47ft. by 32ft. inside, also accommodates the two diesel engines of 200-h.p. each which operate the pumps, and the electrical equipment by means of which the Ellesmere Road valve is automatically closed as soon as those pumps are started up, thereby preventing "short-circuiting" of the pumped flow up the outlet culvert which would cause flooding at the Schola Green Lane site.

Provision is made in both pump houses for the installation of additional pumping plant should it be required in the future and it is interesting to note that since it was put into commission the full installed pumping capacity in engine and pump house No. 1 has been in operation on occasion during heavy rainfall.

Fitting motors to headgear of outlet penstocks in detritus chambers at main pumping station.

While the greater part of the Morecambe drainage area could be drained by gravity to the Schola Green Lane site there were one large and three small sub-areas which had to be dealt with by localised pumping in order to deliver the flows of sewage and storm water to the main pumping station at Schola Green Lane.

The large sub-area comprises the vicinity of Bare Lane and is drained by sewers varying in diameter up to 36in. terminating at the Bare Lane Pumping Station, a short distance from the Bare Lane Railway Station.

The sewer discharges into a pump well of some 40,000 gallons capacity and from there the flow is lifted through a 33in. diameter rising main to the head of the Westgate trunk sewer.

Space is provided in the pumping station, which measures 38ft. by 26ft. inside, for pumps having a total capacity of 17,500 gallons per minute, but the installation at present comprises two pumps of 500 g.p.m. capacity driven by 9-h.p. motors and two pumps each of capacity 5,500 g.p.m. driven by 100-h.p. motors.

The three small sub-areas are provided with underground pumping stations, constructed in cast-iron tubbing and located as follows: Adjacent to the rear of the Winter Gardens and equipped with one pump of 250 g.p.m. and two pumps of 900 g.p.m. capacity delivering sewage and storm water to the Central and Bare sewerage system at Dallam Avenue in the corner of the Grammar School playing fields, at which two pumps each of 125 g.p.m. capacity deliver sewage and a proportion of the storm water to the Central and Bare system, the balance of flow being lifted by three pumps each of 800 g.p.m. capacity to the sea near the end of Thornton Road; at Elms Road at which two pumps each of 250 g.p.m. capacity lift sewage and storm water to the Central and Bare system.

Cost

It is estimated that the cost of the scheme is about £2½m., which bears no relationship to the estimates prepared in 1936. Comment the consulting engineers, A. H. S. Waters and Partners of Birmingham:

"Since that time rates of wages alone have been quadrupled and the cost of materials, plant, etc., has shown similar increases. Conditions of contract have changed radically over the same period. Furthermore, the size and importance of the town has grown, bringing along very considerably increased volumes of traffic necessitating special measures to reduce as much as possible interference with the day-to-day life of the town. An example of this is the resewering of the Central area where most of the work was carried out in tunnel.

"All these factors have served to swell the burden of cost, but no small factor in that respect had been the almost unpredictable nature of the subsoil conditions and the conditions of existing systems, etc."

Contractors and Suppliers

Taking part in the implementation of the scheme have been the following contractors and chief suppliers of machinery, etc.:

Contract No. 1—Trial boreholes on foreshore—John Thom, Ltd.—£142.

No. 2—Part of Landward portion of Outfall Sewer (until wartime abandonment)—B. Sunley and Co., Ltd.—£53,200.

No. 3—Part of Schola Green Lane Pumping Station (until wartime abandonment)—B. Sunley and Co., Ltd.—£57,572.

Nos. 4, 4a and 4b—Pumping plant for Schola Green Lane Pumping Station—W. H. Allen Sons and Co., Ltd.—£83,183.

No. 5—Widening and deepening main dyke to River Lune—Michael Thompson, Ltd.—£17,766.

No. 6—Small length of sewer between Winter Gardens and Littlewood's Stores—Edmondson Bros.—£793.

No. 7a—5ft. diameter steel pipes for remainder of outfall sewer—South Durham Steel and Iron Co., Ltd.—£49,654.

No. 7b—Seaward portion of outfall sewer—Harbour and General Works, Ltd.—£378,733.

No. 7c—Remainder of landward portion of outfall sewer—Lane Bros. (Builders), Ltd.—£159,493. Machinery, etc.: 5ft. diameter electrically operated sluice valve and 4ft. diameter sluice valve—J. Blakeborough and Sons, Ltd.

No. 8—Schola Green Lane Pumping Station (Balance of work) and Bare Lane Pumping Station—Harbour and General Works, Ltd.—£260,716. Machinery, etc.: Electrically operated valves and penstocks—J. Blakeborough and Sons, Ltd.; screening equipment—Hartleys (Stoke-on-Trent), Ltd.; screenings disintegrators—Sulzer Bros., Ltd.; sludge pumps—Pulsometer Engineering Co., Ltd.; flow and level recording equipment—Geo. Kent, Ltd.

No. 8a—Pumping plant for Bare Lane Pumping Station—Sulzer Bros., Ltd.—£16,861.

No. 8b—Repairs to old storage tanks at Schola Green Lane—Joe Johnson (Contractors), Ltd.—about £5,500.

No. 9—Westgate sewerage—Hussey, Egan and Pickmere, Ltd.—about £300,000.

No. 10—Electricity sub-station—Wm. Huddleston and Sons, Ltd., who have also done additional works at Schola Green Lane—total about £5,500.

No. 11a—Part of Central and Bare sewerage—Hussey, Egan and Pickmere, Ltd.—about £90,000.

No. 11b—Part of Central and Bare sewerage—Hussey, Egan and Pickmere, Ltd.—about £425,000.

No. 11c—Balance of Central and Bare sewerage (including pumping stations at Winter Gardens, Dallam Avenue and Elms Road)—P. A. Baines (Northern), Ltd.—about £80,000. Machinery, etc.: Cast-iron tubbing and pumping plant for pumping stations—Adams-Hydraulics, Ltd.

No. 12—West End sewerage—Melville, Dundas and Whitson, Ltd.—about £250,000.

No. 13—Bare Lane sewerage—Hussey, Egan and Pickmere, Ltd.—about £200,000.

£1M. MOORGATE REDEVELOPMENT

City of London Corporation have been recommended to grant conditional planning approval to a scheme for redevelopment above Moorgate Station, for M.D.M., Ltd.

Plans provide for erection of three 17-storey blocks of offices and a large raised piazza which will be linked with the high-level pedestrian walkways proposed for the Barbican area. The cost is estimated at £1m., and the architects are Leo Hannen Associates, London.

HAMPSHIRE ROAD IMPROVEMENTS

A Story of "Indecision and Shortage of Funds"

"AGAINST the background of a nationally expanded programme publicised some three years ago, the reason for the reduction of Ministry of Transport grant for Hampshire road improvements this year is not understood," states MR. H. N. JENNER, M.B.E., M.I.C.E., M.I.Mun.E., county surveyor of Hampshire, in the introduction to his annual report. "Hampshire has a higher than average increase in traffic, accidents and population, but has one of the lowest allowances to maintain and improve roads compared to the mileage.

"A further very disquieting factor in Hampshire is the rapid and accelerating deterioration of narrow asphalt surfaces upwards of 20 years old which are breaking up under the vast increase in industrial traffic between the Midlands, London and the South Coast.

"On the instructions of the County Committee (to be ready when more grant came), a five-year programme of urgent work was prepared and a special effort was made to finalise drawings for them and to get land. The programme and plans have been sent to the Ministry; the plans are delayed awaiting decisions.

"The foregoing factors of indecision and shortage of funds have detracted from the progress in improving the efficiency of the department by concentrating on larger schemes and increasing mechanisation," continues Mr. Jenner. "What is so badly needed are decisions and allocation of funds in advance and for a period of years —a minimum of five—so that the layout of the roads and the allocation of labour and funds can be planned and applied with some forward thinking."

Mr. Jenner concludes: "I . . . pay a tribute to the patience of the technical staff, foremen and men during a time of considerable frustration whereby we live among the complaints and criticism and increasing traffic without the comparatively small increase in funds to do what should be done to improve our road system."

Annual Report

During the year ended March 31, 1960, a very considerable volume of maintenance work and an all-too-little programme of major improvement work proceeded efficiently, mainly by direct labour, Mr. Jenner states in his report of which the following are extracts:

Resurfacing

A total of 121,047 tons of base and surfacing materials was laid by mechanical means during the year. Of this total 79,206 tons were laid by the county council's Barber-Greene finishers and 41,841 tons by contractors' machines and other mechanical plant.

The total output from the council's asphalt plant at Micheldever was 58,071 tons.

Major Improvements

The policy adopted of spending the greater part of the money available for major reconstruction work on a selected number of the more important Class I routes was followed during the year, when work was concentrated on A.31 between Winchester and Farnham.

Rapid progress was made in the early part of the year, helped by the dry summer, so that it was possible by August Bank Holiday to open a considerable length of twin carriageway to the holiday traffic, and this was done at Avington Down, between Winchester and Alresford, while between Bentley and the Surrey County boundary the work was almost complete and one of the twin carriageways was available for traffic. The twin carriageways were opened early in September. At the same time between Bishops Sutton and North Street, Ropley, the carriageway was realigned with easier curves and greater visibility on the inside of the bends, thus making overtaking easier with increased safety.

Progress during the fine summer was indeed so good that it outpaced the money available for work of that type included in the estimates for the year, so that in consequence work had to be stopped in the autumn to await a fresh start at the beginning of the next financial year.

In addition to the work on route A.31 the A.32, South Warnborough Village, and A.338, Shipton Bellinger to Park House Crossroads major improvements were completed.

Grant approval was received for the scheme on A.333, Wine Cross to Staple Cross at Boarhunt, but delay in the acquisition of land prevented a start being made during the year.

The improvement of Poles Lane, now a Class II road, between Otterbourne and Hursley, completed a year ago, proved to be of the greatest value in relieving congestion in Winchester.

Christchurch By-pass

The twin carriageways of the two-mile-long Christchurch By-pass were completed by the laying of a 1in. thick wearing course of bitumen macadam containing granite aggregate and the amenity planting of shrubs and trees was also completed.

The By-pass was opened on July 17, 1958, and 42 accidents occurred at the Burton Road and Stoney Lane junctions up to February 21, 1960. In view of this large number of accidents an alteration in the design was contemplated. It was, however, decided to amend the signing of the junctions to see if the accident rate could be reduced.

Large "Cross Roads" signs were erected on each side of both By-pass carriageways, the word "Slow" was painted in duplicate on each approach lane, bollards with 16ft. columns carrying a 12in. globe were erected on the islands in the side roads, black and white boards were provided to show up the openings in the central reservation and especially large warning boards were erected on the side roads to warn drivers of the fast traffic on the By-pass.

These alterations were completed on March 3, 1960, and no further accidents had been reported up to the end of the financial year. This period is too short to conclude that the difficulties at these junctions have been completely cured. The situation will be watched to see if any further action is necessary.

Marchwood By-pass

Better progress was made during the year with the construction of the 3¾-mile-long Marchwood By-pass and although the arrears of work arising from the exceptionally wet weather of the autumn and winter of 1958/59 and the late date of entry on to the land between Marchwood Park and Manor Road, Dibden, were not entirely overcome, the bulk excavation, with the exception of a small quantity at the new railway bridge, was completed; 2½ miles of new carriageway were surfaced and the gravel sub-base and stone base were laid on the remaining lengths of carriageway.

The new two-span railway bridge which is being constructed in two halves progressed sufficiently for the single track railway to be replaced on the completed first half at the end of August, 1959. The bridge, which carries the Totton-Hythe-Fawley Light Railway over the by-pass has been so constructed that only a simple widening of the deck will be necessary when the contemplated second railway track is added.

Experimental Work—Surface Dressing

Two series of test sections were carried out which are both showing excellent results at present, although observation is continuing to obtain fuller information. The details are as follows:

Dry Chippings

(a) B.3420 junction T.R. A.34 north-west to Hill Farm Crossroads, M.R.462338—433382.

The object of the experiments was to see the effect of using (i) heated chippings, (ii) dry chippings. The chippings were heated at Micheldever and dried and stored there before delivery to the site. It is hoped that by applying chippings which are dried and heated it will assist the adhesion of the chipping to the binder fill and in so doing provide a longer life for the surface dressing. It should minimise considerably the risk of chippings being displaced during the first few hours after the treatment of the road as a result of fast-moving traffic, and the effects of rainfall and particularly thunderstorms. The details of the sections are as follows:

Sections 1-5 (incl.)—Hot chippings and pre-dried chippings (cool) respectively on alternate sections.
Section 6—Pre-dried chippings (cool)—binder treated with an adhesion agent before application.
Section 7—Pre-dried chippings (cool)—control for section No. 6.
Total length—approximately three miles.
Materials:
Chippings—¼in.-⅜in. granite from Castle-an-Dinas, Cornwall.
Binder—Cut-back bitumen, viscosity 100 sec. at 40 degrees C.

(b) B.3386 between Twyford and Shawford, M.R.481246—471251.

This was a further section using chippings which had been dried at Micheldever. This type of experiment did not have as great a benefit as it would have had in view of the dry summer, which provided chippings which were considerably drier than usual from the normal stock-pile materials.

Materials:
Chippings—¼in.-⅜in. Pyx granite from Malvern, Worcestershire.
Binder—Cut-back bitumen, viscosity 100 sec. at 40 degrees C.

Rubberised Bitumen

A.3057 north of Greatbridge Viaduct towards Greatbridge, Romsey, M.R.352220—352227.

This trial was made on a fairly heavily trafficked Class I road, and it was unfortunately carried our during unfavourable weather conditions, although the result has been good. A special type of rubberised bitumen was used and in addition the chippings were treated with an adhesion agent; the dressing was dusted with a light application of finely graded crushed rock. The length of the section involved was 550yd.

Materials:
Chippings—¼in. gritstone from Triscombe, Somerset.
Bitumen—Proprietary grade of rubberised bitumen.

Private Street Works

The serious financial restrictions imposed by the Government since the war which had prevented any real attack on the private street works problem in the county were, to a large extent, removed so the Committee decided to canvass the frontage owners of 56 streets; this was done in March/April, 1959. The result was disappointing in that only in two streets did the owners of the required 60 per cent. of total frontage agree to the works.

Because of this poor result, the Committee considered and approved a system of weighting the canvass results taking into account various factors such as

(Concluded on next page)

TEN YEARS OF EDUCATIONAL BUILDING

Past Achievement and Challenge Ahead

As far as educational building is concerned, the "battle of the bulge" has been won, says the Ministry of Education's annual report*. During the last 10 years "we have built more new schools more quickly than ever before in our history."

The report adds: "This has been an immense achievement, but tasks no less challenging lie ahead. Reorganisation has still to be completed in some areas; the worse of the old schools must be replaced; the country's large stock of sound but out-of-date school buildings needs remodelling to modern standards; a vast expansion of technical colleges and teacher training colleges is taking place; and for the first time a specific programme of building for the Youth Service has been begun."

The battle began with the raising of the school leaving age in 1947, which meant that a large number of extra school places were needed very quickly. Immediate problems were the scarcity of labour and materials, the running down of authorities' architectural and administrative staffs during the war, and steadily rising costs.

In 1949 it was estimated that at least 2,000,000 new school places would be needed by 1961. But it was not long before the estimate had to be put even higher. An enlarged housing programme, new towns and new communities brought an even stronger demand. In fact, by the end of last year the overall stock of school places had been increased by 2,600,000.

Cost Achievement

Today, the new school buildings dominate the local landscape. The fact that they are only half as expensive in real terms as they were in 1949 is a major achievement in itself. In 1949, the cost-per-place of primary schools was about £190, and of secondary schools about £320. Today, the same schools would cost about £330 and £550 per place respectively; in fact, average costs-per-place in 1959 were £148 for primary and £259 for secondary.

Just on 475 new schools were occupied last year. Together with extensions to existing premises they provided about 246,000 new places. Schools now under construction will provide another 203,000 places, about three-quarters of them in secondary schools.

Good progress has been made in the building programme outlined in the 1958 White Paper, "Secondary Education For All." Local education authority programmes for two years ahead were compiled last year. A third of the total work involved is for the improvement or replacement of existing schools, mostly secondary, with special emphasis on projects for the improvement of science teaching facilities. And another quarter provides for the reorganisation of all-age schools. The number of children in these schools has been falling steadily and the projects approved last year will provide proper secondary education for about three-quarters of the senior children in all-age schools.

Technical Colleges

By the end of 1959, final plans for two-thirds of the 363 projects comprising the Government's five-year plan for extension of technical colleges had been approved. The number of new colleges and extensions to existing colleges actually completed in the course of the year was 65. To maintain the momentum the Minister announced a further three-year building programme costing £45m. to follow the five-year one, thus enabling the target figure for accommodation of students set out in the 1956 White Paper "Technical Education" to be raised.

The report says: "In the decade ahead the struggle to provide the country with a stock of educational buildings worthy of our children, our students and our teachers will continue. There will be new needs to meet, new ideas on design, new materials to work with, new problems to solve. The pace of change will be relentless, but invigorating. Finality in educational building is to be neither expected nor desired."

"Education in 1959." H.M. Stationery Office. Cmnd. No. 1088. Price 14s. 6d.; by post, 15s.

GUIDE TO MAKING-UP PRIVATE STREETS

One of the many problems facing local authorities is the making-up of private streets to acceptable standards of construction at a reasonable cost to the frontagers, and the Road Research Laboratory outlines a number of methods in Road Research Note No. 26 (published by H.M.S.O., price 1s. (30 cents U.S.A.), by post 1s. 2d.).

Economies recommended are based on the experience of local authorities and can be effected by making the best use of existing construction as well as cheap local materials in new roadworks.

The recommendations given are for roads carrying light traffic of up to 45 commercial vehicles (of unladen weight exceeding 30cwt.) each day.

DONCASTER MOTORWAY

With reference to the article appearing in our issue of July 7, we are informed that only the CCL system of prestressing was used and not the Gifford-Udall-CCL system as stated.

(Concluded from previous page)

whether a street was more than 75 per cent. developed, whether it was the only access to other development, etc.

A mass canvass of 295 streets, from the single rural street to the large group of roads in built-up areas, was made and the weighted results enabled the council to resolve to make up some 250 roads.

Apart from applying the weighting to the canvass result, it was agreed to group roads in large schemes where this would result in economy and so react to the financial advantage of the frontagers, but strong opposition was made by frontagers on 18 roads at Headley Down to the proposal to make up all their roads and the county council agreed to defer these works, but they also resolved that henceforth canvassing of owners (which caused a large amount of administrative work and was also costly) would be abolished.

Loan applications to the Ministry of Housing and Local Government were made, and loan sanctions in principle received, for 62 roads (total value £276,000) which, together with roads for which loan sanction had already been approved, comprise the works programme for the years up to and including 1962-63.

Skidding

Investigations into skidding accidents on wet roads are assuming greater importance in view of increasing traffic volumes and speeds. Approximately 20 per cent. of accidents involve skids and the detection and treatment of "wet-skid" sites is an important factor in road safety work. Records are kept of the locations of wet-skid accidents between April 1 and September 30 each year, these being the most significant months. Statistics obtained during the winter months are generally regarded as being insufficiently reliable, as skids occur on frosty and icy roads so that they bear no relation to the actual surface of the road.

Selected sites are tested with a portable pendulum tester, one of which the department now owns and surface-dressing or other suitable treatment is applied where necessary.

Most of the sites investigated during 1959 were on bends and in almost every case the accidents were entirely eliminated after the treatment had been carried out.

Routine tests are carried out on surfaces on which new type aggregates have been used and a watch is also kept on the life of other treated sites especially to check how their skid-resistance properties vary with age.

Mechanisation

The experimental use of 15cwt. trucks with special flat bodies and a low loading height has proved successful and three more of these vehicles fitted with diesel engines were bought during the year. A further five 5cwt. pick-up trucks were also bought to replace vans previously in use by foremen. Seven 15cwt. diesel vans were purchased to replace smaller vehicles, and because of their large body capacity and economical running they are proving satisfactory.

Two cable-operated loading shovels used by divisions have been replaced by two new hydraulic loading shovels.

The department's two remaining heavy steamrollers have been replaced by two new 8-ton diesel machines which are equipped with two-tine hydraulic scarifiers.

An average of 1,000,000 gallons of heated bitumen and tar is used during a surface dressing season, and in the past has been sprayed on to the road by contractor's machines. To give greater control over this important operation and effect a saving in cost a Leyland six-wheeled chassis, fitted with a 1,500-gallon heated tank and spraying equipment, has been purchased. This machine is scheduled to spray 131,500 gallons of heated bitumen during the 1960 season. As surface dressing is a seasonal job and to ensure that the new vehicle is fully occupied throughout the year the 1,500-gallon tank and spraying equipment has been designed so that it can be easily removed and replaced by a 10 cu. yd. heated tipping body to be used for haulage of coated materials from the Micheldever asphalt plant.

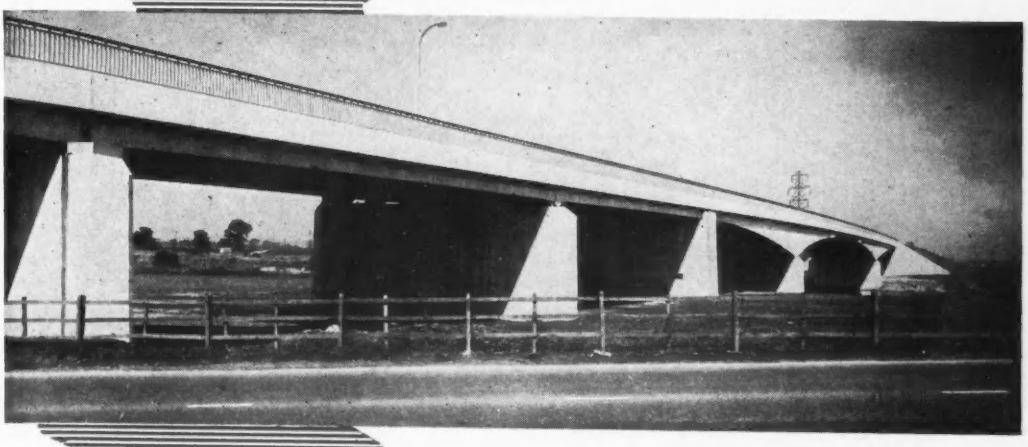
A "Bros" snow blower has been obtained on loan from the Ministry of Transport. It is mounted on a county council mechanical loader and is fully mobile.

A lightweight rotovator has been purchased and modified to remove thermoplastic white lines. The equipment is operated by one man, thus releasing men who have previously carried out this operation by hand chipping.

To give greater protection to men working in the centre of the road a portable safety beacon has been produced by the Department which will operate with a standard oil lamp or an electric flashing beacon. It is proving most effective.

The maintenance of reciprocating types of tractor-operated verge mowers has always presented many problems. A Massey-Ferguson Forage-Harvester was purchased to carry out the clearance of 57 acres of scrub at Shawford Downs, and in view of the hugh success of this machine on this particular job it was decided to make certain modifications to enable the machine to be used for mowing verges. The experiment was highly successful and the machine, which is powered by the Ferguson tractor, can be operated by one man, and will work in any weather conditions; it mulches the grass so that it is not necessary to collect the cuttings. Three additional machines have now been purchased.

WATERPROOFING OF BRIDGE DECKS



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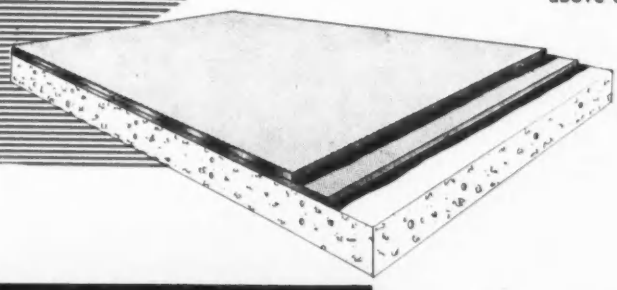

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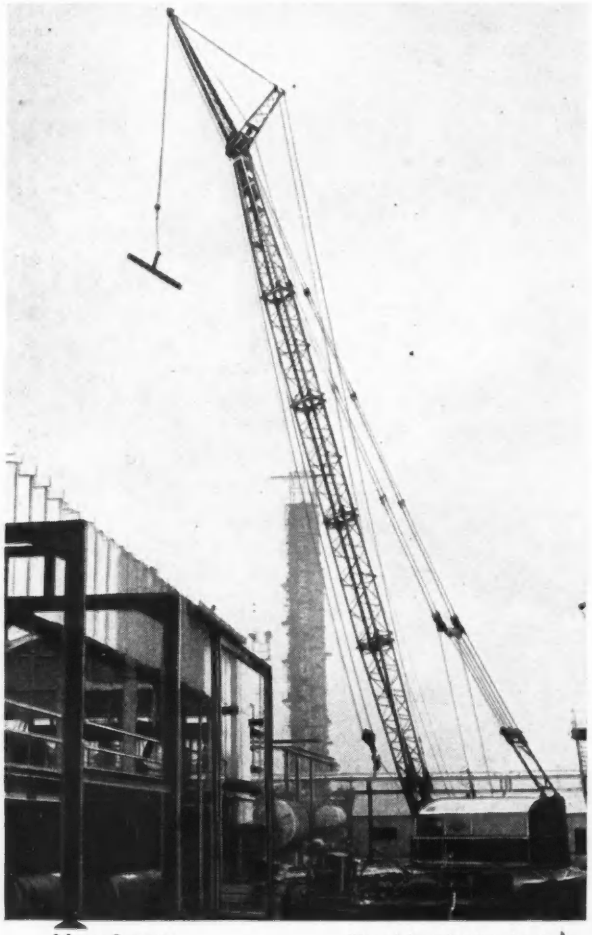

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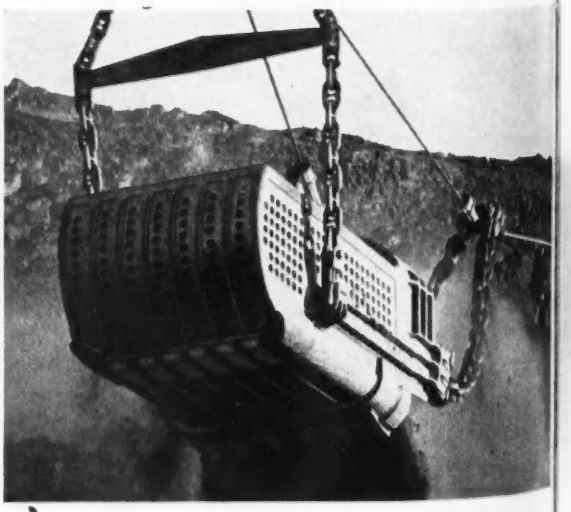

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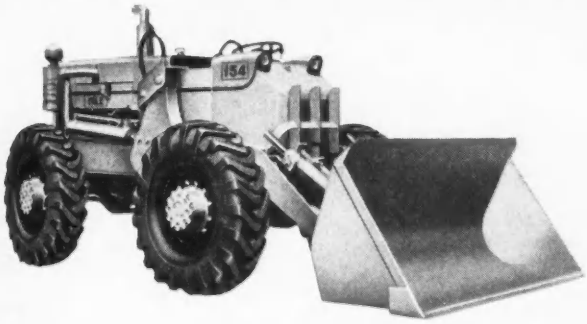

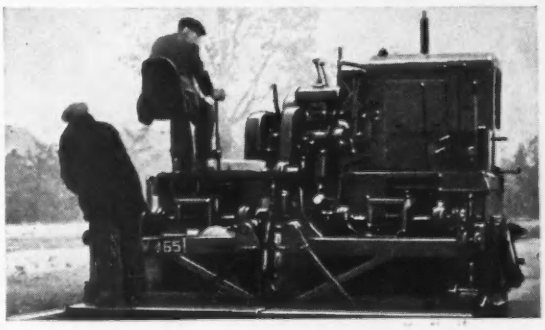

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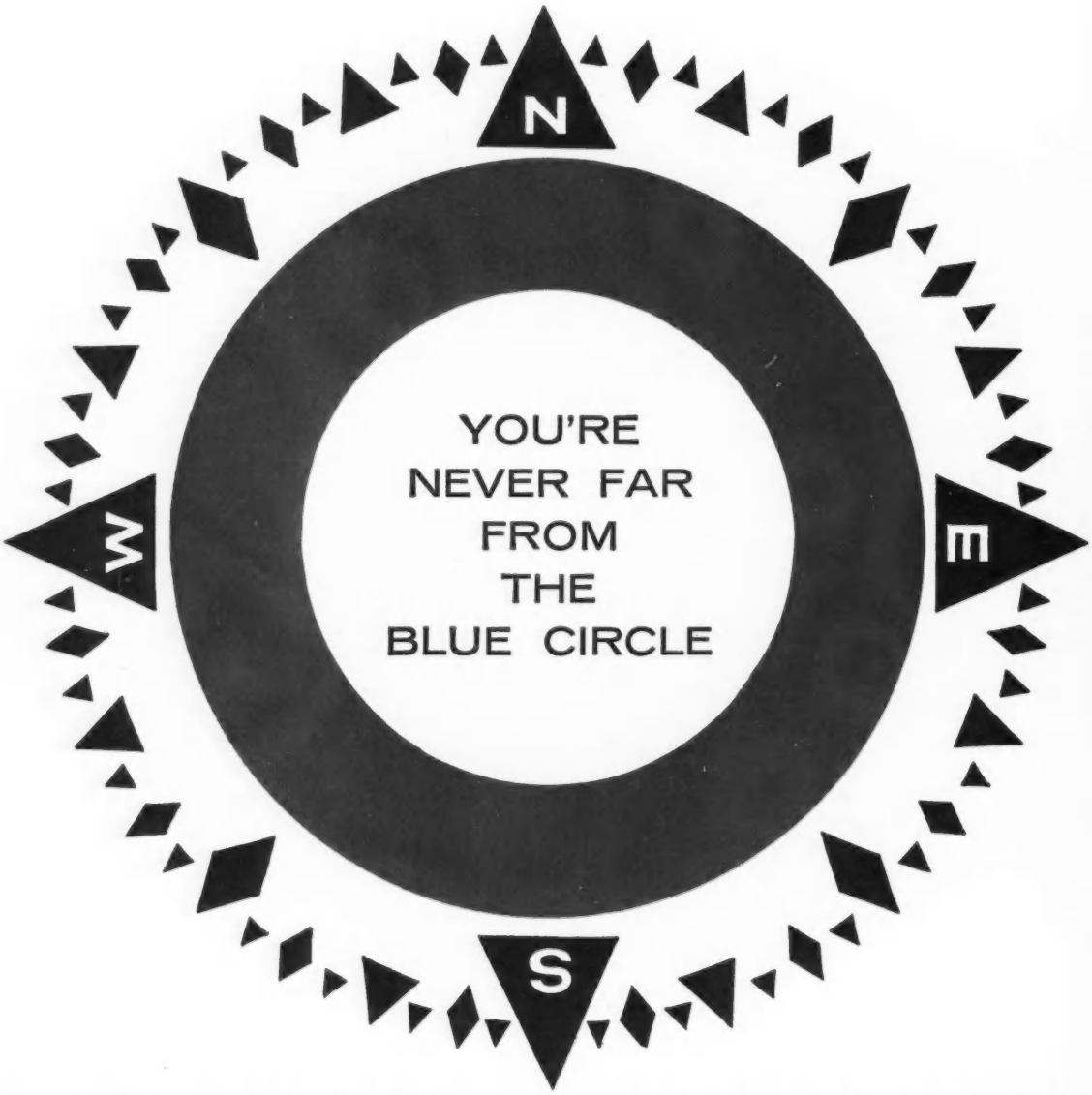

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A LAWYER CONSIDERS . . .

Recovery of Holiday Credit Increases — Employees' Tax Liability — Meaning of Dangerous Machinery

THE repercussions of the *Henry Boot and Sons, Ltd.* decision, discussed in an article in *The Contract Journal* for December 10, 1959, are being felt over the country in the settlement of fluctuations due under Clause 25A of the R.I.B.A. Standard Form. A further difficulty has arisen in that many surveyors seem to be taking the view that even if the Henry Boot decision can be regarded as irrelevant to the problem of whether fluctuations are recoverable in respect of annual and public holiday stamp increases, such increases are irrecoverable for another reason. This reason is that by sub-clause (1) of Clause 25A the contractor is entitled to recover if the rates of wages and other emoluments and expenses payable to workpeople in accordance with the rules and decisions of the National Joint Council are increased by reason of "alterations in the said rules or decisions"; the value of holiday stamps is, however, increased by a decision under the so-called Four-Party Agreement of employers and operatives in the building and civil engineering industries; such increases are not therefore paid as a result of any alteration in the rules and decisions of the National Joint Council and are therefore irrecoverable.

It should be said at once that it is unfortunate that the clause is so drafted as to seem to permit of such an argument; it must have been the intention that increases so closely linked with wage increases should be equally recoverable and one can only wonder why the matter was not put beyond doubt. After all a great deal of the value of standard forms is lost if their meaning on such important matters is not made clear. Nevertheless, if one examines the position the argument set out above is not quite as strong as it may appear.

Under Rule 1 of the National Working Rules for the Building Industry, paragraphs (i) and (j), it is laid down that in respect of each operative there is due from each employer by means of purchase from the Management Company holiday stamps "of appropriate values." The paragraphs, however, go on to state that "the amounts of weekly credit are fixed by Four-Party Agreement and are not variable by process of amendment under this wage agreement." Now the employer's obligation is to comply with the rules of the National Joint Council. If then holiday stamp values are increased by Four-Party Agreement but an employer (assuming for the sake of argument that it was possible) went on purchasing stamps at the pre-increase value he would be in breach of National Working Rule 1, (i) and (j), because he would not have purchased stamps "of appropriate value"; before the increase he would have been complying with the Rule, after the increase he would be in breach; how then can it be said that such increased payments are not paid as a result of an alteration in the National Joint Council's rules when not to pay such increases would be a breach of the rules? This argument is somewhat strengthened because it is believed that in fact the National Joint Council do record, and thus could be said to adopt, any decision of the Four-Party Agreement to increase the value of holiday stamps. One may therefore argue, subject to seeing exactly how the National Joint Council do record such decisions, that increases in fact come about because of a decision of the Council—the fact that it is to all intents and purposes a rubber-stamp decision would not seem to be a matter which any court would need to go into to decide this matter.

It must, however, be stressed that neither this point, nor the impact of the House of Lords decision in the Henry Boot case on the meaning of the R.I.B.A. contract's fluctuation clause, have yet been before the courts. It might perhaps be desirable, however much one could wish that the need had been avoided by amendment of the Form, for a test case on this subject to be taken to avoid the uncertainty that has arisen; it is especially difficult for authorities spending public money to pay on what may be doubtful grounds legally and it is in settlement of contracts with them that contractors are most likely to meet real opposition on this point.

Employees' Tax Liability

REFERENCE was made in an article in *The Contract Journal* for March 19, 1960, to the case of *Abbott v Philbin*. This case has now gone to the House of Lords and is reported in 1960, 2 All E.R. 763. The facts were that the senior officials of a company were offered an option to purchase shares at the market price at the date of the option; the option was open for 10 years, was non-transferable and the price was £1 for every 100 shares covered by the option. A purchased an option in October, 1954 for 2,000 shares for £20. In March, 1956 he exercised the option and bought 250 shares at the October 1954 price—this represented a gain to A, owing to an increase in the market price, of £166. The Revenue sought to tax A on this sum as part of his income for 1955/56. Somewhat reluctantly the Court of Appeal confirmed this assessment on A but the House of Lords has reversed their decision and overruled the Scottish case which the Court of Appeal had felt obliged to follow in order that tax law in Scotland and England should be the same.

It is clear that whatever an employee receives as a result of his employment which is money, or can be translated into money terms, is *prima facie* taxable as part of his income. The only question here was when did this option become a perquisite of his employment? The House of Lords has now affirmed that the only perquisite which arose to the employee was the option itself and that it must be assessed on him and tax charged in respect of it in the year in which it was granted. The House therefore rejected the Revenue's view that the option was only taxable when it was exercised. The taxable receipt was the acquisition of the option and, if it had a monetary value when received, it was that value that represents the perquisite of his employment. As Lord Simonds said, "it was . . . a perquisite at the date of grant and, if it had no value, there was nothing to tax and that is the end of the matter."

Now it is quite clear, and the case of *Salmon v Weight* [(1935) All E.R. 904] is good authority on the point, that if a company decides to allow employees to purchase shares at less than the market rate the employee is assessed to tax on the difference between his purchase price and the market rate; that difference is the money value of the perquisite to the employee and arises to him when he accepts the employer's offer. If, however, an employee is not given a straight offer of shares at below market price but, as in Abbott's case, is given an option for which he pays a nominal price then the option's money value at the time of its grant is the perquisite which is assessable to tax in the employee's hands. Clearly such an option can be valued; but it must be valued at the time it is granted. If therefore the shares offered are in an expanding company it will be worth the employee's while to wait to exercise the option until the tax year in which it has been granted has passed. Contractors, therefore, who may wish to follow the increasing custom of allotting shares at favourable prices to employees they desire to reward and hope to retain would be well advised to consider how they carry this out; if one method can result in an employee not being faced with a tax liability the grant of shares will be doubly welcome.

Meaning of "Dangerous" Machinery

IN *Close v Steel Co. of Wales, Ltd.* [(1960) 2 All E.R. 657] the Court of Appeal again followed the slight trend of the courts towards interpreting, where possible, an employer's statutory duties towards his employees to mean that an employee can only succeed in saddling his employer with breach of duty if there is some fault in the employer. Of course the ultimate decision must turn on the actual words of the statute or statutory regulation imposing the duty, but even so the courts seem to be trying to avoid making the employer an insurer against accidents to his employees during the course of their employment.

The facts of this case were quite simple. C aged 22 was working for S's as an electric drill operator. When drilling, a bit, consisting of very hard steel, was inserted into the drill and could be turned at up to 3,000 revolutions per minute. Unfortunately when he was once using it the bit broke and shattered pieces flew upwards and damaged C's eye. C sued S's for damages, firstly on the grounds of common law negligence, that is failing to take reasonable care for his safety. This claim failed and C did not appeal against this failure. Secondly he claimed for breach by S's of the duty they owed him under S.14(1) of the Factories Act, 1937, which provides that, "every dangerous part of any machinery . . . shall be securely fenced unless it is in such a position or of such construction as to be as safe to every person employed or working on the premises as it would be if securely fenced."

There was evidence to show that the breaking of bits was a fairly common occurrence in the workshops. The pieces however flew sideways or downwards, rarely, if ever, upwards and in view of this the Court of Appeal felt that C's accident "was not one which could or would be reasonably foreseeable in the ordinary course, though it was one which those responsible, if they had closely reflected on it, would have said could happen though the chances were extremely remote." In view of this finding could it be said that this piece of machinery was "dangerous" when C was using it; only if the answer was "Yes" did there arise any obligation on S's to fence it. The Court, after considering the many cases on this point, were of the opinion that the prime object of the provisions of S.14 is to keep the operator from contact with the piece of machinery; but that is not the whole purpose of the section; it imposes on the employer a duty to protect workmen from injury caused by ejected or flying pieces of the machine itself. The accident to C was therefore of the type falling within the kind of injury from which the Section sought to protect the workman; but in this particular case the actual injury was so unusual that the Court would not hold that the machine was dangerous and the employers were therefore under no duty to C to fence it against the type of accident he suffered. Of course, had the accident been the result of a piece flying out sideways or downwards and penetrating C's leg then the Court would almost certainly have held it to be dangerous; such accidents are reasonably foreseeable and that now seems to be the criterion for deciding whether a machine is dangerous or not.

GOVERNMENT DECIDE TO SPEED UP THE ROAD PROGRAMME

Bigger Local Authority Grants

CHANGES in the road programme involving an increase in Government expenditure from £65m. this year to £76m. next, and to £88m. the following year, were announced in Parliament last week by the Minister of Transport, Mr. Ernest Marples.

He said that priority would continue to be given to the five major projects initiated under his predecessor (the improvement of the Great North Road, a new motorway from London to the north-west, the Medway motor road, the Midlands-South Wales route and a new road from London to South Wales). The aim was substantially to complete these schemes over the next five to six years, in addition to making a start on the Yorkshire motorway.

On the subject of classified roads Mr. Marples stated that the Government had decided for planning purposes that expenditure, which would amount to £16m. this year, should be fixed over the next five years at £150m. for England and Wales.

This meant that for the next five years the average grant to local authorities would be twice the present year's expenditure of £16m. But, of course, the local authorities would have a lot of work to do—planning, acquiring land and so on—so in practice it would mean that their rate of spending over the later years would rise to almost three times the present year's expenditure of £16m.

Local authority associations and individual highway authorities, continued the Minister, had asked to be given as much advance information as possible about the road projects which the Government were prepared to consider for grant. In putting the larger programme into effect it was intended to give all county councils and county boroughs a programme for three successive years beginning with the year 1961-62.

Scottish Roads

An accelerated trunk road programme for Scotland was also announced in the Commons last week by the Secretary of State, Mr. John Maclay, who said that under the present programme he would authorise in 1959-60 and 1960-61 schemes amounting to about £7m. in the two years. The proposed acceleration would nearly double this figure in the following two years.

The Government planned to spend during the next five years about £31m. on the classified road programme, including the crofter counties' programme. This sum would provide for the completion of the Forth Bridge and the Clyde Tunnel. It would also enable him to increase the funds available to local highway authorities for improvement works on classified roads, including those within urban areas. Excluding the bridge and tunnel, expenditure on the general classified road programme would rise from the present level of £2m. per annum to over £5m. at the end of five years.

FORTH ROAD BRIDGE VIADUCT TENDERS

As officially announced on page 526, the Forth Road Bridge Joint Board are inviting tenders for the construction of the approach viaducts of the bridge (Contract No. 4). The work comprises piers and foundations, abutments and deck, including girders and roadway.

An artist's impression of the new 13-storey head office of the Co-operative Permanent Building Society, now in course of construction in High Holborn, London, W.C.1, on the site adjacent to the existing headquarters, a seven-storey building completed in 1929. The new block, in reinforced concrete with Portland stone facing, will, in addition to the office accommodation, have an underground garage capable of parking 21 cars. Scheduled for completion in 1961, the building was designed by Mr. Leslie Blease, the Society's chief architect until his recent election to the Board. It is now under the supervision of Mr. J. A. Rawlinson. The builders are H. Fairweather and Co., Ltd., London, and the consulting engineers, Bylander, Waddell and Partners, London

Late Construction News

£1½M. SWANSEA HOUSING.—Swansea B.C. have been recommended to accept the following tenders for housing on various sites: Two hundred and thirty flats at Dyfatty site—Gibson and King, Ltd., Great North Road, Milford Haven, £828,284; 190 houses at Sketty Park Estate—Direct Labour, £320,985; and 166 houses at the Clase Part 2 scheme—Gibson and King, Ltd., £269,100.

CAERNARVONSHIRE SCHOOL.—Subject to approval of the Ministry, Caernarvonshire C.C. have been recommended to place a contract with Edward Jones (Contractors), Ltd., Penmaenmawr, amounting to more than £129,000, for the erection of a residential school for physically handicapped children, at Llandudno.

BEESTON SEWAGE DISPOSAL. — The £156,782 tender of J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Mill, Nottingham, has been accepted by Beeston and Stapleford (Notts.) U.D.C. for extensions to Beeston Sewage Disposal Works. Elliott and Brown, Stanley House, Pelham Road, Nottingham, are the consulting engineers.

KENT SEWERAGE.—A £482,827 contract has been let by West Kent Main Sewerage Board with Kinnear Moodie and Co., Ltd., 299-303 Hither Green Lane, London, S.E.13, for construction of 4,515yd. of 57in. and 60in. sewers between Bourne Bridge, Bexley, and Halfway Street, Sidcup. The major part of the work will be constructed in tunnel. Mr. W. Howard is the Board's engineer.

LONDON LUXURY FLATS. — A contract, valued at about £218,000, has been awarded to Higgs and Hill, Ltd., Crown Works, South Lambeth Road, London, S.W.8, by Sun Life Assurance Society, Ltd., for erection of a block of 26 flats with three garages beneath and an annexe of eight garages, at 1-5 Lowndes Square, S.W.1. The architects are Messrs. Joseph, Kings Bench Walk, London, E.C.4, and the quantity surveyors are Bainbridge and Evers, 1a Middle Temple Lane, E.C.4.

BIRMINGHAM TOWER BLOCK.—A 13-storey tower block of offices, to cost about £1m., is proposed at Broad Street, Birmingham, by the West Midlands Gas Board. The Board's architect is N. Cooley; the consultants, Husband and Company and Hoare Lea and Partners; and the quantity surveyors, Silk and Frazier, Portland Road, Edgbaston. Contractors have not yet been appointed, but work is expected to start at the end of the year.

PRIVATE STREET WORKS

"No Ground for Change in Law"

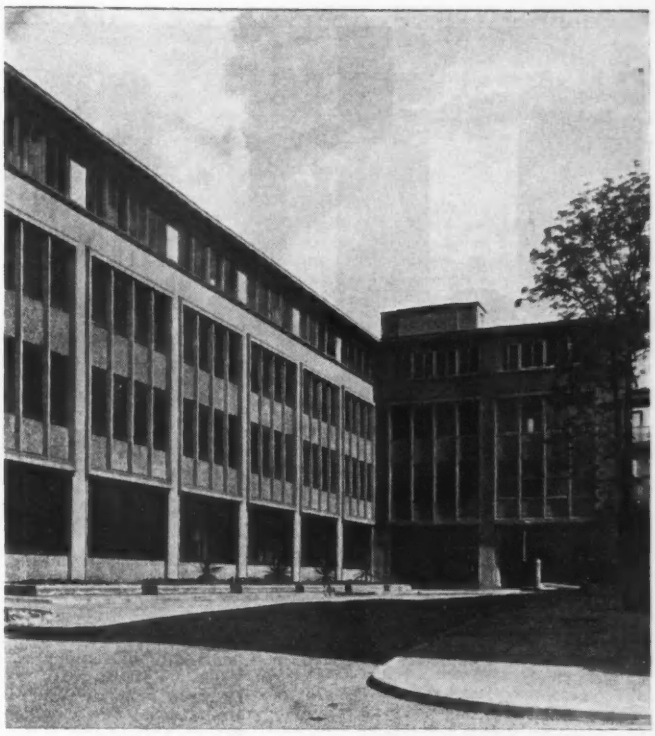
The Minister of Housing and Local Government, Mr. Henry Brooke, stated in Parliament last week that the survey on private street works arrangements showed there were at present about 54,000 private streets. During the next 10 years local authorities hoped to make up 24,000 of them at a total cost of some £75m.

His general conclusions from the survey were that there was no ground for any fundamental change in the law on this subject and that the existing law, if sympathetically administered, enabled equitable results to be secured and provided means of mitigating hardship in the relatively few cases where that occurred.

There was no evidence of general dissatisfaction or complaint among the persons affected. Such dissatisfaction as there was would be reduced still further if all local authorities took full advantage of the opportunities afforded by the law to deal with hard cases. He proposed to take this matter up with the local authority associations, with a view to guidance being given to the local authorities.

UNITED STEEL MOVE INTO NEW HEADQUARTERS

Four-storey Block Linked With Reconstructed 19th-Century Building



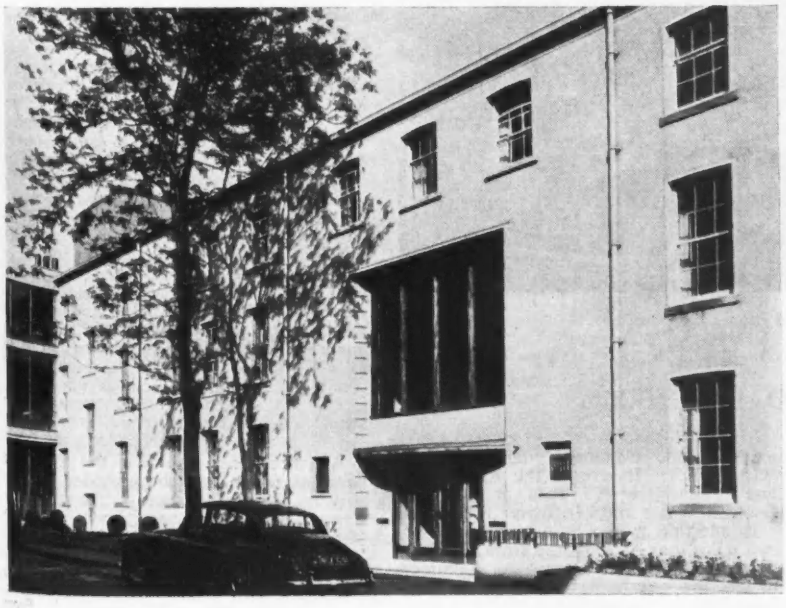
New block and interconnecting wing which joins up with the original building

THE head office of The United Steel Companies, Ltd., previously situated in a number of converted private houses in West Westbourne Road, Sheffield, has been transferred to new headquarters at The Mount, about 100yd. away. Here, there is office accommodation for a staff of approximately 150 people, some of whom are housed in The Mount itself—a 126-year-old building—others being accommodated in an entirely new four-storey block and interconnecting wing which have been built behind the main building.

Originally designed as a block of eight private houses sharing a common, pillared facade in the classical style, the existing building has been converted for use as executive offices, conference room suite and dining rooms.

While the facade has been retained almost the whole of the internal structure was removed. Steel framing was introduced to strengthen the building, most of the existing roof was removed and steel trusses introduced to provide a large open space on the top floor. A prestressed concrete hollow tile floor was supported on steelwork for most of the second floor, but elsewhere the existing timber floors were adjusted in height and covered with plywood to receive carpets.

Lift shafts were planned towards the rear of the building so that the main building profile could remain unchanged. The front facade was steam cleaned but the rear elevation facing the courtyard has been rendered. The external character of the building has been maintained internally by the use of traditional detailing, arched fanlights providing borrowed light to the corridors, with panelled doors to the offices and plastered walls and ceilings. Open fireplaces have been retained for intermittent use although the building is centrally heated.



The reconstructed building—main entrance

The Extension

The extension is used wholly for office accommodation, with a central corridor at first floor and above. The ground floor contains two departments, printing and Hollerith. Lifts and staircases are placed at either end of the corridor with the toilet accommodation approached off the staircase landing.

The extension is joined to the existing building at the north end and vehicular access to the courtyard is under the building. The building is steel framed, with prestressed hollow tile floors and in-situ concrete staircases. The main elevations are faced with artificial stone, while the panels below the stainless steel windows are exposed aggregate concrete.

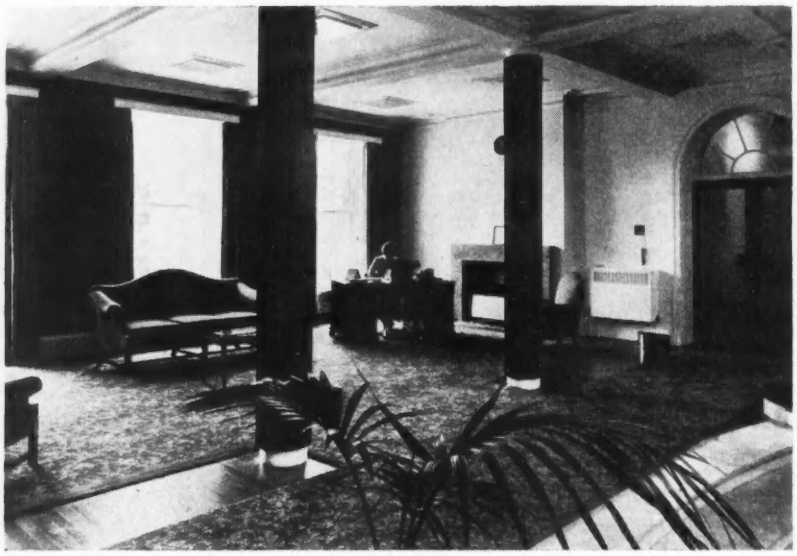
Floors are furnished in rubber for the corridor and staircases, cork for the offices and terrazzo for the toilets. The ground floor is hardwood on joists, suspended above the site concrete to permit modifications to the printing and Hollerith layout. The main entrance hall is in marble tiles.

Ceilings throughout the offices are metal acoustic tiles with special recessed light fittings to suit the partition module. Hardwood has been used extensively round the windows and panelling introduced at each lift landing.

The corridor partitions are built of 4in. framed slag blocks between timber studs positioned at each module and the whole plastered over. Alterations are simplified by cutting out the blocks between studding and inserting the standard door unit which includes a side light, acoustic vent and light switch panel. All cross partitions are demountable metal and can be moved without alteration to lighting, sockets, telephone points or heating units.

The whole building is centrally heated by recessed convector heaters under the windows, which are served by pipework running in a large duct under the ground floor and connecting, below the road, to the existing building.

An interesting point about the project



Main reception area for visitors

is that it is believed to be the first building to use windows completely fabricated in stainless steel.

The Garage

A garage was required to house the cars of staff members with facilities for maintaining the company's own vehicles. The unit was to be as inconspicuous as possible and it was therefore built on two levels partially buried into the ground. In order to preserve the view from the existing building the garage roof was treated as a garden and the whole outside of the building was designed to preserve this residential character.

The building is steel-framed on a diamond-shaped grid with in-situ concrete floor, roof and retaining walls. Parapet walls are faced with exposed concrete aggregate concrete panels while other walls are artificial stone rockeries. Hardwood curtain walling was used for the main external cladding. Stone-faced flower boxes and a bowling green are placed on the roof, which is some 4ft. below the ground floor of the existing building. The paved areas are in hexagonal concrete slabs.

Architects and Contractors

Architects for the scheme were J. Mansell Jenkinson and Son, 53 Wilkinson Street, Sheffield, 10, and the main contractors were Geo. Longden and Son, Ltd., St. Peter's Close, Sheffield, 1.

The board room

£3M. SURREY ROAD SCHEMES

SURREY C.C. have approved for submission to the Minister of Transport a scheme to take the Portsmouth Road, A.3, on a by-pass of Esher.

Three proposed routes have been under consideration by the County Highways Committee, the one recommended being seven miles long. It leaves Kingston By-pass east of Woodstock Lane and goes south between Claygate and Hook, crosses the Guildford railway line and crosses the A.244 east of Roundhill.

The road then goes west across Esher and Fairmile Commons and under the existing A.3. It crosses the River Mole and rejoins the A.3 road at Painshill, Cobham, where another flyover is planned.

In addition to the by-pass a link road, two miles long, is proposed from Kingston By-pass across the Littleworth Common to join the new by-pass at a flyover junction east of Roundhill.

The estimated cost of the two roads is £3m.

£½M. FOUNDATION CONTRACT FOR HOLLOWAY BROS.

PARTICULAR problems regarding ground conditions are involved in a £500,000 contract placed with Holloway Bros. (London), Ltd., for foundations work at the site of the new Spencer Steelworks of Richard, Thomas and Baldwins at Llanwern, Mon.

A considerable area of the site has been allocated for storage of ores, coke and concentrates, which will be discharged by boom stacker plant. The plant has a rail mounting set upon foundations to take the great weight. Mounds of the material will be built up on either side of the track by the stacker, and it is when these become unbalanced in relation to each other that difficulty occurs.

Lateral force is set up in the ground, causing movement, and in these circumstances it has been found that conventional piles get pushed out of true. As it is not possible to avoid uneven loading during operation of the storage area it was necessary to evolve a form of foundation suited to the conditions that could be relied upon to remain firm at all times.

The consulting engineers, W. S. Atkins and Partners, London, considered that the best solution to the problem was to use caisson foundations. Holloways developed the design now adopted which consists of a special form of elongated caisson built up from layers of reinforced precast concrete units 30ft. long and 6ft. wide cast on site.

These layers, weighing 11 tons each, will be taken from the casting bed where they are made to the point of assembly on tractor-drawn trailers. Up to 16 units bolted together will make one caisson, which will be sunk up to 40ft. through typical marsh deposits, clays, peat and varying mixtures to Keuper Marl. Compressed air will be used as necessary for sinking and sealing the caisson.

The schedule at Llanwern is very tight and to meet the programme about 120 caissons must be completed in 20 weeks. This will mean working day and night, seven days a week. A large amount of plant will be required and is being concentrated on site. Something like 12 excavators of various sizes will be employed, together with a number of derricks, compressed air plant and other equipment.

ARRANGEMENTS FOR GRADUATED CONTRIBUTIONS

Mr. John Boyd-Carpenter, Minister of Pensions and National Insurance, has made regulations* which, with the regulations already made on the assessment and collection of graduated contributions, complete the general structure of the contributions arrangements for the graduated pension scheme which is to start in April, 1961.

The present regulations have been approved in draft by the National Insurance Advisory Committee. The regulations deal with such matters as the refund of graduated contributions wrongly paid; and the liability for flat-rate contributions where a person has two employments in the same week, in one of which he has been contracted-out of the graduated scheme as a member of an approved occupational pension scheme. The regulations also set out which contribution provisions in the regulations of the present flat-rate scheme, are to apply to graduated contributions.

A comprehensive guide to the graduated pensions scheme will be provided for employers, well in advance of the introduction of the scheme next April, state the Ministry.

**The National Insurance (Graduated Contributions and Non-Participating Employments —Miscellaneous Provisions) Regulations, 1960, S.I.1960, No. 1210, price 6d. From H.M. Stationery Office, or through any bookseller.*

FINANCING CHANNEL TUNNEL

New Proposals by Study Group

SPEAKING in London last week, Mr. Leo D'Erlanger, chairman of the Channel Tunnel Company, said that since the report of the Channel Tunnel Study Group was submitted to the Government in March, the Group had revised the outline of its financial proposals and had recently submitted a memorandum containing modified proposals to the British and French Governments.

This memorandum was designed to accomplish three things: first, it was intended to relieve the railways of any financial burden relating to the construction of the tunnel; second, it made it clear that the shareholders would assume the full risk on their investment; third, it would remove the provision of certain direct guarantees and assurances from the Governments concerned.

Position of Railways

When the Study Group was preparing its report, it assumed that the British and French Railways wished to finance the terminals and other ancillary facilities needed to operate the tunnel as being an integral part of the two rail systems. It appeared that such an investment would not be too great a burden on the railways, since the cost of these ancillary facilities would be met by revenue from the tunnel, and that the capital cost would be more than offset by the railway companies avoiding further capital outlay on ships and port facilities.

The Study Group had the impression that the British Government viewed with reluctance the British Transport Commission undertaking any substantial investment obligations regarding the tunnel in view of the heavy capital requirements of British Railways for other purposes.

If this impression was correct, the Group wished the Governments concerned to know that it was prepared—if necessary—to provide not only the capital costs of building the tunnel, but, if needs be, the entire amount of £24m. needed for both the British and French terminals and ancillary facilities—an undertaking which would bring the total of private financing of the scheme to some £130m.

Full Risks by Shareholders

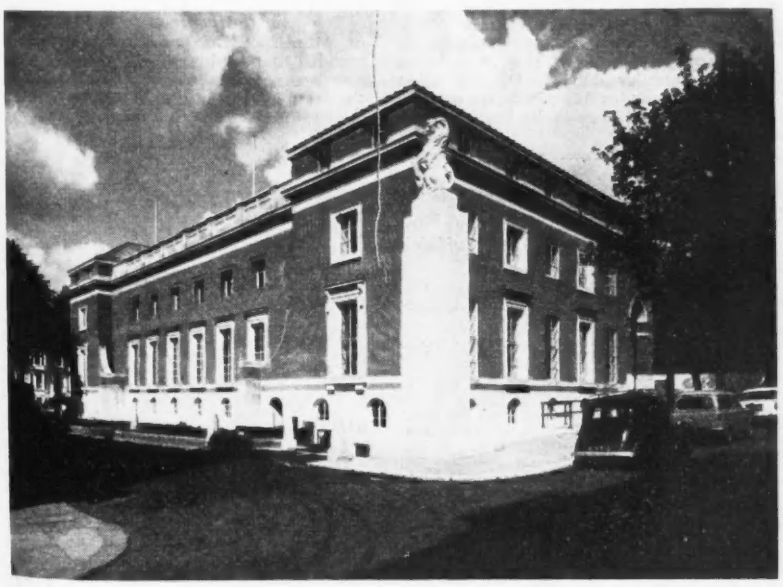
Investors in the share capital—who would represent some 20 per cent. of the total investment—would be required to assume the full risks on their investment. These risks included the possibility that the completion of the tunnel might be delayed or even found impracticable and that *force majeure* might render the tunnel temporarily or permanently unusable.

The Study Group had concluded that it would probably be possible to market the company's bonds without Government guarantees if a head-lease of the tunnel were entered into directly by the Governments for an amount sufficient to cover the interest on and amortisation of the outstanding bonds. It was believed that a head-lease would meet the legal requirements for bond issues in the countries concerned and that the tunnel could be financed on world markets without the direct guarantees called for by the Study Group's original proposals.

Foreign Investment

Probably some three-quarters of the finance required would come from French, American and other foreign investors. This should dispose of the natural misgivings of critics in this country who felt that the project rated a low priority as compared with the rebuilding of our road and railway systems.

"I am confident, if Governments can be moved by reasoned argument, that by 1965 the first passengers, vehicles and goods will travel via the Channel Tunnel from Britain to the Continent and vice versa," concluded Mr. D'Elanger.



The new Central Library at Kensington, pictured above, was opened recently by Queen Elizabeth the Queen Mother. The architect was Mr. E. Vincent Harris, R.A., and the contractors, Holland & Hannen and Cubitts (Great Britain), Ltd. Construction is in structural steel on reinforced concrete foundations, with hollow tile and solid reinforced concrete floors and a concrete roof. The facings comprise red bricks, 1 4/5in. thick with a 4/5in. bed joint, and Portland stone surrounds. Two large pitched roofs at the east and west ends of the building are covered in cast lead laid on a boarded roof fixed to precast roof units. The library is the first instalment of a long-term scheme for a new civic centre

£4M. HIGHGATE HILL DEVELOPMENT

DEVELOPMENT of a six-acre site between Highgate Hill, Macdonald Road, Vorley Road and Junction Road, will be carried out in three phases over several years by The Rodwell Group, Ltd., Hertford Street, London, W.1, at an estimated cost of £4m.

Known as the Archway Development, the complete scheme will have a 17-storey office block above Archway Underground Station; four office blocks (one of 12 storeys, one of 10 and two of four storeys); three blocks of flats; and 12 luxury penthouse apartments. Demolition work has commenced for phase I of the scheme, and is being carried out by J. and A. Demolition Co., Ltd., London, N.W.10.

The architects are Oscar Garry and Partners, 66 Gloucester Place, London, W.1.

POST OFFICE MODERNISATION PROGRAMME

A seven-year programme of modernisation is to be carried out by the General Post Office, in which between 100 and 150 Crown Post Offices will each year be made more attractive for customers and staff, at an annual cost of about £300,000.

At South Molton Street, London, W.1, modernisation of the first Post Office in the programme has been completed. The architects were Sir Hugh Casson in association with Professor Misha Black of Design Research Unit, and the architects in charge were Alexander Gibson, F.R.I.B.A., and Philip Lucey, A.R.I.B.A. H. N. Barnes, Ltd., London, S.W.6.

South Molton Street is the first of six old-fashioned Post Offices for which the Postmaster-General has appointed consultants in connection with the programme. Sir Hugh Casson and Professor Misha Black are modernising two others in London; Knightsbridge Branch Office, S.W.1, and New Bridge Street Branch Office, E.C.4.

Three Post Offices in the north of England are also being dealt with at the present time; they are Manchester Royal Exchange, Chapeltown Road Branch Office, Leeds, and the Corn Exchange Branch Office, Liverpool. The consultants for these are Mr. W. Stevenson, principal of the Liverpool College of Art, and Mr. F. J. M. Ormrod, of the Liverpool firm of architects and planning consultants.

£300,000 CREWE HOUSE EXTENSION

An extension is to be carried out to the 250-year-old Crewe House in Curzon Street, London, W.1, now the headquarters of Thomas Tilling, Ltd.

The scheme will consist of a six-storey building of reinforced concrete construction and T-shaped on plan, the greater part of which will be offices and the remainder luxury flats. Completion is scheduled for the end of June, 1961, and the cost is estimated at £300,000.

The architects are Gunton and Gunton, Empire House, St. Martin's le Grand, London, E.C.1; the consulting engineers, Chamberlain and Partners, 29 Bedford Row, W.C.1; and the quantity surveyors, Walter W. Green and Partner, 396 Seven Sisters Road, N.4. Taylor Woodrow Construction, Ltd., Southall, Middx., are the contractors.

The Coal Preparation Plant Division of Plowright Bros., Ltd., 197 Knightsbridge, London, S.W.7, have received a contract from the National Coal Board for a 250 tons an hour Baum type washery for Maltby Colliery, No. 1 area, North Eastern Division. The contract includes all civil engineering and electrical works.

Talking of Safety

by "DRAGEE"

MY assistant, sorting out the morning's mail, held up an accident report form with an expression of disgust.

"Calamity Joe again," he said.

I looked up quickly from my own pile of papers. "Not Jack Spiller?" I asked—although I could have guessed. "What on earth has happened to him this time?"

"Broken big toe, left foot," said George. "Read all about it." And he pushed the form over on to my desk.

Jack Spiller—alias Calamity Joe—had indeed been at it again. Or, rather, someone had been at him. Another erector in the gang had mishandled a length of heavy pipe; the pipe had fallen to the floor; Jack's foot had been in the way, and Jack had collected a broken toe.

"Pass the record card, George."

Together we looked at Jack Spiller's list of misfortunes, dating back to the time he first came to us at the beginning of his present contract. In a matter of 18 months he had received hospital treatment on no less than six occasions, and four of those had resulted in spells away from work. Nothing very serious, but just too darned regular. You felt that if it went on like that he'd be bound to collect a packet sooner or later. The last one happened on a site up North, during a spell of bad weather. There was a bit of a mix-up with the crane signals and, sure enough, Calamity Joe was the victim. That cost him a cracked bone in the wrist.

A month or so before that, he had received a hefty blow in the chest when somebody did the old-time movie joke—a clumsy type carrying a ladder on his shoulder had turned quickly when somebody whistled. Yes, C.J. was there when the ladder swung round. Shortly before that, a collision with a scaffold tube gave him a nasty cut on the forehead. On another occasion he stepped into a small valve-pit and sprained an ankle. For each of these accidents there were several minor mishaps recorded in the accident book.

"This chap's the most accident-prone type I've ever come across," said George.

"I wonder," I said, pondering over the records.

"Oh, come off it," said George. "You'll be saying next that this sort of thing happens to everybody."

"Not at all. I'm simply saying that I'm not sure that Jack Spiller is accident-prone in the accepted sense of being simply ill-fated. Look at it this way: if several chaps are playing at dice, each man using his own, and one man consistently throws more sixes than the others, there comes a time when you feel that it just isn't luck any more and you begin to have some foxy thoughts about that particular man's dice."

"In other words you begin to look for a cause? The lump of lead?"

"Exactly. After a long run of accidents like Spiller's you begin to wonder whether there isn't something loaded against him."

"But that could only be something personal."

"That's what I'm after. What we're looking for is some unsuspected physical or psychological fault."

"Couldn't we just try the physical one first?" said George. "Psycho-analysis was never my best subject."

"Right. Let's go back to the records. We haven't enough detail about the present case to be helpful. What about the crane business? Could he have avoided the danger if he had been more alert?"

We looked at the sketches and the photographs. Spiller's left side was towards the chain which had caught his hand when it unexpectedly lifted. A careful study of the diagrams of the other accidents showed a distinct similarity of position in relation to the hazard; in each case there could have been a failure to apprehend the danger in time to avoid it.

"That suggests either hearing or eyesight," I said at length.

"What about muscular trouble—a weakness somewhere, perhaps?"

"After the knocking about he's had, he's probably gathered quite a few weaknesses," I said. "But I don't think that line will help us. You see, he has obviously never been conscious of any handicap, whatever it may be, and most people know pretty definitely if they're suffering from a muscular defect. On the other hand, eye or ear trouble can be deceptive."

"It could have been faulty hearing when the crane accident happened," said George.

"Yes, or equally it could have been eyesight. This last case seems to indicate eye trouble. Anyway, we can have him checked."

We did in fact do that. Jack Spiller submitted himself willingly to an optical quiz with one of those jolly machines the experts use, and this revealed a very definite weakness which could have accounted for most, if not all, of Jack Spiller's troubles. Corrective treatment was prescribed, and Jack has now been back at work for three days without . . . pardon? Oh, all right . . . touch wood, then.

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

BOREHOLE SUNK TO 5,532FT.

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Using their Standard XXII winch the company have reached a total depth of 5,532ft. at the Wilkesley borehole site, Chesshire. The hole has been drilled using the diamond drilling method from the start and brine saturated muds. A ten-man crew have worked round the clock, six days a week, for just over 12 months.

The hole was commenced with a diameter of 8in. and was completed with a diameter of 3½in. A 73ft. derrick was used and the remainder of the drilling equipment including the winch and pumps is to the special design of the Foraky Organisation.

BOOKLET ON LONDON'S DRAINAGE

The L.C.C. have published a new illustrated booklet called "London's Main Drainage," which traces the history of the city's main drainage service from the time of the cholera epidemic of the 1850's to the modern service provided today. Copies of the booklet are available free from the Information Bureau, L.C.C., County Hall, North Block, London, S.E.1.

The Law Committee of the Association of Municipal Corporations have recommended that for highway and bridge works members of the Association should use the form of conditions of contract of the Institution of Civil Engineers.

FOR THE DIARY

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Royal Institution of Chartered Surveyors. Annual conference at the University College of North Wales, Bangor. Aug. 30-Sept. 3.

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Meeting of the Southern Counties branch of the Contractors Mechanical Plant Engineers, The Surrey Tavern, Morden Road, Morden, 7.30 p.m. Film show.

Sept. 9
Building Surveyors' Institute Dinner Dance, Waldorf Hotel, London.

Sept. 13
Eighth annual residential study course arranged by the South-Western District of the Institution of Municipal Engineers. Dillington House, Ilminster, Somerset. Sept. 13-15.

Sept. 14
Meeting of the Western Branch of the Institution of Plant Engineers, Royal Clarence Hotel, Exeter. 7 p.m. Film and talk on the construction of the M.1 Motorway.

Sept. 16
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Conference of the British Waterworks Association, Edinburgh, Sept. 21-23.

Factory Equipment Exhibition, Belle Vue, Manchester. Sept. 21-Oct. 1.

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Nov. 14
Public Works and Municipal Services Congress and Exhibition, Olympia, London. Nov. 14-19.

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Northfield Housing Co., 1294 Bristol Road South, Northfield, Birmingham, builders. £5,000. Directors: Charles H. Fitzpatrick, 59 Hillcrest Road, Romsley, Worcs.; John Shipway, Flat 8, 23 Shapley Road, Barnt Green, Worcs.; John R. Shipway, 280 Lordswood Road, Harborne, Birmingham.

J. Devanny and Co., Ltd., 48 Malden Road, New Malden, Surrey, public works contractors. £100. Directors: J. Devaney, 30 Quinn's Square, Russia Lane, Bethnal Green, E.2; Alan D. Young, 4 Thetford Road, New Malden, Surrey.

L. S. Howard, Ltd., Shiphay Filling Station, 82 Cadewell Lane, Torquay, builders. £500. Directors: Leonard S. W. Howard and Ina E. E. Howard, 41 Dower Road, Torquay, Devon.

Powell Beard and Co., Ltd., Back Lane, Drybrook, Glos., public works contractors. £1,000. Directors: Joseph G. L. Powell, Brook House, Drybrook, Glos.; Colinwood R. Beard, 8 Woodville Road, Cinderford, Glos.; Albert J. Powell and Douglas A. Powell.

M. A. Smyth and Sons, Ltd., 9 London Road, Stevenage, Herts., builders and contractors. £100. Director: Mrs. Muriel A. Smyth, 9 London Road, Stevenage.

Brownway, Ltd., 42 High Street, Sutton, Surrey, building contractors. £1,000. Directors: William A. Brownjohn, 22 South Side, London, S.W.16; Albert Treadaway, 37a Grosvenor Road, Wallington, Surrey.

Durling and Gausden, Ltd., 6 South Street, Eastbourne, builders. £10,000. Directors: Robert G. Durling, 52 Dillingburgh Road, Eastbourne; Gordon E. Gausden, 62 Dillingburgh Road, Eastbourne.

Cross and Co. (Demolition and Haulage), Ltd., 3 North Circular Road, London, E.4. £1,000. Directors: Robert J. Cross, Mrs. B. M. Cross and George D. Cross, all of 3 North Circular Road, London, E.4.

Buchanan Builders, Ltd., 1-3 Weston Chambers, Weston Road, Southend-on-Sea. £1,000. Directors: Samuel Buchanan, 48 Fifth Avenue, Hart Road, Thundersley; David A. Buchanan, 2 Sixth Avenue, Hart Road, Thundersley.

Alexander and Stanton, Ltd., 6 Holborn Viaduct, London, E.C.1, builders. £1,000. Directors: Fredk. E. Alexander, 283 Lynmouth Avenue, Morden, Surrey; Alan Stanton, 74 Gatley Avenue, West Ewell, Surrey.

N.J.K. Plant Hire (Leeds), Ltd., Dalkeith, Elmete Avenue, Roundhay, Leeds. £100. Directors: Jack Kenyon and Mrs. K. E. Kenyon, Dalkeith, Elmete Avenue, Roundhay.

Double "H" Plant Hire, Ltd., Quarry Works, Lindrick Dale, near Worksop. £3,000. Permanent directors: Peter Harrison, 17 Laughton Road, Dinnington, near Sheffield; Keith G. Hawke, Fanfield Farm, Lindrick Dale, near Worksop.

Severn Construction Co., Ltd., 5 Unity Street, Bristol, 1. £10,000. Directors: George F. McKie, Greenoaks, Station Road, Nailsea, Som.; Maurice S. Cubbage, Windrush, West Hill, Portishead.

Pre Mixed Concrete (Rotherhithe), Ltd. £100. Directors not named. Subscribers: John D. Watney (solicitor) and Evelyn Berry (secretary), 61 Carey Street, London, W.C.2.

Oxford Bros. (Demolition), Ltd., 49 Crown Street, Brentwood. £1,000. Directors: Arthur B. Oxford and Dennis E. Oxford, The Forge, Norton Heath, Blackmore, Essex; Peter T. Moseley, 25 Disney Close, Ingatestone.

Hoolachan Bros., Ltd., River Street, Whit Lane, Pendleton, Salford, 6, builders. £2,000. Directors: Roger Hoolachan, 82 Welwyn Drive, Lancaster Road, Salford, 6; Thomas H. Hoolachan, 234 Moor Lane, Salford, 7.

Hopkins and Nixon (Stafford), Ltd., Canal Wharf, Radford Bank, Stafford, builders. £100. Directors: Ernest Hopkins, 10 Gordon Avenue, Holmcroft, Stafford; Jack Nixon, 12 Hinton Close, Rickerscot, Stafford.

J. Aldersley (Builders), Ltd., 25 Elmete Avenue, Leeds. 8. £3,000. Directors: Jas. Aldersley and Mrs. Jean B. Aldersley, 25 Elmete Avenue, Leeds.

E. A. Thomas (Builder and Contractor) Co., Ltd. £100. Directors: Eric A. Thomas and Winifred M. Thomas, 24 Central Avenue, Ashington, Rochford, Essex.

E. H. Cannon and Son (Builders), Ltd. £400. Directors: Edward H. J. Cannon and Edward K. Cannon, 118 Tudor Drive, Kingston, Surrey.

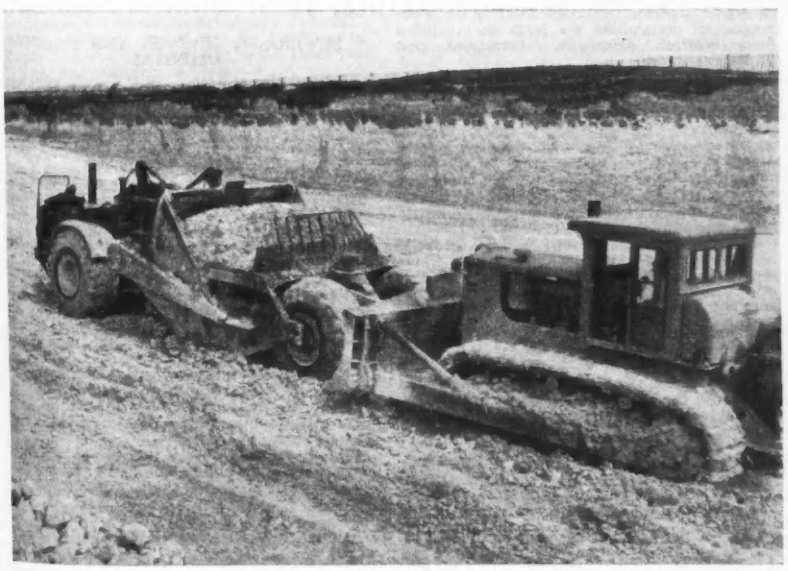
M. and S. Builders and Civil Engineering Co., Ltd. £300. Directors: Thomas Sloyan, 111 Leyfield Road, West Derby, Liverpool; Joseph McEllin, 100 Boundary Street, Liverpool; Patrick J. Murray, 134 Milton Avenue, Bowring Park, Liverpool.

Cryals Buildings, Ltd., builders. £2,000. Directors: Wm. D. Edwards and Peter F. Janner, addresses not stated. Subscribers: Wm. N. Yates, Lyons, East Street, Tonbridge (solicitor); John A. Bertram, Ashley House, Grove Hill Road, Tunbridge Wells (solicitor).

Bilsite, Ltd., builders. £100. Directors to be appointed by subscribers. Subscribers: Mare N. Stacey and Cyril F. J. Wigginton (solicitors), 5 New Court, London, W.C.2.

A. J. Craig (Builders and Decorators), Ltd. £1,000. Directors: Archibald J. Craig and Mrs. J. Craig, 36 Sandsend Road, Davyhulme.

Kenneth Skynner, Ltd., Star House, Maidstone, plant hire specialists. £5,000. Directors: Reginald K. Skynner and Mrs. Shirley J. Skynner, Westfields, Nashender Lane, Borstal, Rochester, Kent.



Excavations for the northern approach road to the Dartford Tunnel are well ahead of schedule. Sam Booth, Ltd., are removing 400,000 cu. yd. of material, including some 300,000 cu. yd. of chalk, with a large team of Caterpillar DW21 motorised scrapers and D9 tractors supplied and serviced by Fred Myers, Ltd.

HYDRAULIC BULLGRADER FOR INTERNATIONAL BTD-8

A NEW hydraulic bullgrader, the model B-8G-2, designed for use with the 60-h.p. BTD-8 (80 series) crawler tractor, has been announced by the International Harvester Company of Great Britain, Ltd., 259 City Road, London, E.C.1.

It uses the direct lift principle, the hydraulic system being a closed one with relatively high pressures of 1,500 p.s.i. The front-mounted pump is well protected, being assembled well within the tractor's regular heavy steel frame and radiator guard. The high working pressures of the system allow the use of small diameter pistons which, together with the 21 g.p.m. pump delivery at rated engine speed, give precise blade control even at intermediate engine speeds.

The makers claim that on test, excavations of up to 176 cu. yd. an hour have been made on a 60ft. push and 142 cu. yd. over a 100ft. push.

SOILTEST DUCTILITY TESTING MACHINE

A machine for testing the ductility of bituminous materials has been produced by Soiltest, Inc., Chicago, Ill. It measures the distance a specimen will elongate before breaking when pulled apart at a specific uniform speed and temperature.

The apparatus is mounted in a double-wall polished stainless steel bath, 80in. long, 12in. wide and 12¾in. deep. Water in this bath surrounds the entire test unit and is kept at a uniform temperature throughout by means of an automatic agitator that constantly circulates the water. The test results are measured on a scale 150 centimetres long mounted on a top edge of the tank so the operator can observe results while the test is in progress.

The machine's motor drive is variable and can be locked at any speed so that operating configurations may be repeated from one test to another. A cut-off on the motor prevents test over-runs. The tester will accommodate three individual briquette specimens.

NEW GEARBOX FOR FORDSON DEXTA

Improved choice of gears in the lower speed range and increased power at the power-take-off are given by a new gearbox which is now being fitted in the Fordson Dexta tractor manufactured at Dagenham by the Tractor Division, Ford Motor Co., Ltd.

The new road speeds will be: first gear, .51 m.p.h. at 800 r.p.m.; second gear, .92 m.p.h.; third gear, 1.53 m.p.h. There is therefore a choice of three gears of under 1¼ m.p.h. at 800 r.p.m., while a top speed of 15½ m.p.h. at 2,000 r.p.m. in top gear is retained.

The engine revolutions for a correct p.t.-o speed of 540 r.p.m. have been altered from 1,550 to 1,800 r.p.m. with a resultant increase of 3-h.p. (from 28-h.p. to 31-h.p. at the engine) showing a corresponding increase in h.p. available at the p.t.-o from 25-h.p. to 28-h.p. Belt pulley changes have been made to maintain a correct belt speed of 3,000ft./min. at 2,000 r.p.m.

LEWIN SWEEPERS FOR LOW COUNTRIES

An agreement has recently been signed between the Brockhouse Organisation of West Bromwich, Staffordshire, and Kronenburg of Hedel, Holland, for the assembly and sales of Lewin mechanical sweepers in the Benelux countries.

Talking of Safety

by "DRAGEE"

MY assistant, sorting out the morning's mail, held up an accident report form with an expression of disgust.

"Calamity Joe again," he said.

I looked up quickly from my own pile of papers. "Not Jack Spiller?" I asked—although I could have guessed. "What on earth has happened to him this time?"

"Broken big toe, left foot," said George. "Read all about it." And he pushed the form over on to my desk.

Jack Spiller—alias Calamity Joe—had indeed been at it again. Or, rather, someone had been at him. Another erector in the gang had mishandled a length of heavy pipe; the pipe had fallen to the floor; Jack's foot had been in the way, and Jack had collected a broken toe.

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Together we looked at Jack Spiller's list of misfortunes, dating back to the time he first came to us at the beginning of his present contract. In a matter of 18 months he had received hospital treatment on no less than six occasions, and four of those had resulted in spells away from work. Nothing very serious, but just too darned regular. You felt that if it went on like that he'd be bound to collect a packet sooner or later. The last one happened on a site up North, during a spell of bad weather. There was a bit of a mix-up with the crane signals and, sure enough, Calamity Joe was the victim. That cost him a cracked bone in the wrist.

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"This chap's the most accident-prone type I've ever come across," said George.

"I wonder," I said, pondering over the records.

"Oh, come off it," said George. "You'll be saying next that this sort of thing happens to everybody."

"Not at all. I'm simply saying that I'm not sure that Jack Spiller is accident-prone in the accepted sense of being simply ill-fated. Look at it this way: if several chaps are playing at dice, each man using his own, and one man consistently throws more sixes than the others, there comes a time when you feel that it just isn't luck any more and you begin to have some foxy thoughts about that particular man's dice."

"In other words you begin to look for a cause? The lump of lead?"

"Exactly. After a long run of accidents like Spiller's you begin to wonder whether there isn't something loaded against him."

"But that could only be something personal."

"That's what I'm after. What we're looking for is some unsuspected physical or psychological fault."

"Couldn't we just try the physical one first?" said George. "Psycho-analysis was never my best subject."

"Right. Let's go back to the records. We haven't enough detail about the present case to be helpful. What about the crane business? Could he have avoided the danger if he had been more alert?"

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M. A. Smyth and Sons, Ltd., 9 London Road, Stevenage, Herts., builders and contractors. £100. Director: Mrs. Muriel A. Smyth, 9 London Road, Stevenage.

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N.J.K. Plant Hire (Leeds), Ltd., Dalkeith, Elmete Avenue, Roundhay, Leeds. £100. Directors: Jack Kenyon and Mrs. K. E. Kenyon, Dalkeith, Elmete Avenue, Roundhay.

Double "H" Plant Hire, Ltd., Quarry Works, Lindrick Dale, near Worksop. £3,000. Permanent directors: Peter Harrison, 17 Laughton Road, Dinnington, near Sheffield; Keith G. Hawke, Fanfield Farm, Lindrick Dale, near Worksop.

Severn Construction Co., Ltd., 5 Unity Street, Bristol, 1. £10,000. Directors: George F. McKie, Greenoaks, Station Road, Nailsea, Som.; Maurice S. Cubbage, Windrush, West Hill, Portishead.

Pre Mixed Concrete (Rotherhithe), Ltd. £100. Directors not named. Subscribers: John D. Watney (solicitor) and Evelyn Berry (secretary), 61 Carey Street, London, W.C.2.

Oxford Bros. (Demolition), Ltd., 49 Crown Street, Brentwood. £1,000. Directors: Arthur B. Oxford and Dennis E. Oxford, The Forge, Norton Heath, Blackmore, Essex; Peter T. Moseley, 25 Disney Close, Ingatestone.

Hoolachan Bros., Ltd., River Street, Whit Lane, Pendleton, Salford, 6, builders. £2,000. Directors: Roger Hoolachan, 82 Welwyn Drive, Lancaster Road, Salford, 6; Thomas H. Hoolachan, 234 Moor Lane, Salford, 7.

Hopkins and Nixon (Stafford), Ltd., Canal Wharf, Radford Bank, Stafford, builders. £100. Directors: Ernest Hopkins, 10 Gordon Avenue, Holmcroft, Stafford; Jack Nixon, 12 Hinton Close, Rickerscot, Stafford.

J. Aldersley (Builders), Ltd., 25 Elmete Avenue, Leeds. 8. £3,000. Directors: Jas. Aldersley and Mrs. Jean B. Aldersley, 25 Elmete Avenue, Leeds.

E. A. Thomas (Builder and Contractor) Co., Ltd. £100. Directors: Eric A. Thomas and Winifred M. Thomas, 24 Central Avenue, Ashington, Rochford, Essex.

E. H. Cannon and Son (Builders), Ltd. £400. Directors: Edward H. J. Cannon and Edward K. Cannon, 118 Tudor Drive, Kingston, Surrey.

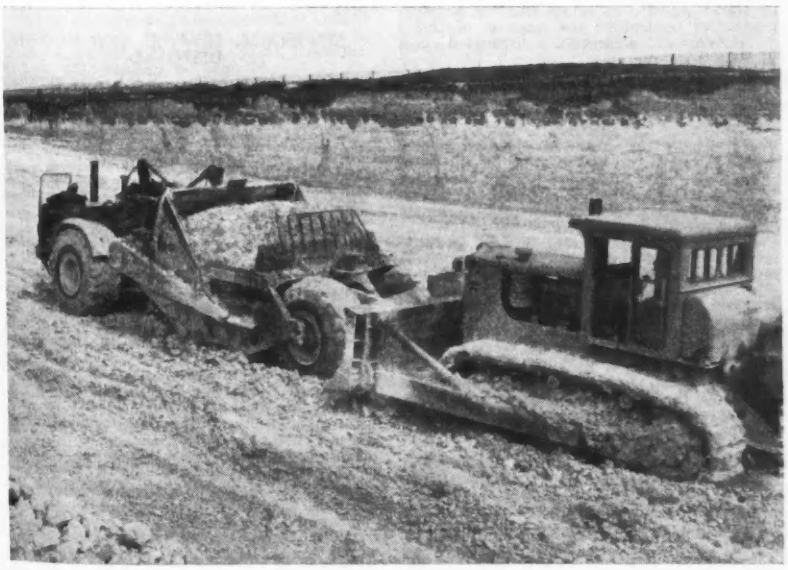
M. and S. Builders and Civil Engineering Co., Ltd. £300. Directors: Thomas Sloyan, 111 Leyfield Road, West Derby, Liverpool; Joseph McEllin, 100 Boundary Street, Liverpool; Patrick J. Murray, 134 Milton Avenue, Bowring Park, Liverpool.

Cryals Buildings, Ltd., builders. £2,000. Directors: Wm. D. Edwards and Peter F. Janner, addresses not stated. Subscribers: Wm. N. Yates, Lyons, East Street, Tonbridge (solicitor); John A. Bertram, Ashley House, Grove Hill Road, Tunbridge Wells (solicitor).

Bilsite, Ltd., builders. £100. Directors to be appointed by subscribers. Subscribers: Mare N. Stacey and Cyril F. J. Wigginton (solicitors), 5 New Court, London, W.C.2.

A. J. Craig (Builders and Decorators), Ltd. £1,000. Directors: Archibald J. Craig and Mrs. J. Craig, 36 Sandsend Road, Davyhulme.

Kenneth Skynner, Ltd., Star House, Maidstone, plant hire specialists. £5,000. Directors: Reginald K. Skynner and Mrs. Shirley J. Skynner, Westfields, Nashender Lane, Borstal, Rochester, Kent.



Excavations for the northern approach road to the Dartford Tunnel are well ahead of schedule. Sam Booth, Ltd., are removing 400,000 cu. yd. of material, including some 300,000 cu. yd. of chalk, with a large team of Caterpillar DW21 motorised scrapers and D9 tractors supplied and serviced by Fred Myers, Ltd.

HYDRAULIC BULLGRADER FOR INTERNATIONAL BTD-8

A NEW hydraulic bullgrader, the model B-8G-2, designed for use with the 60-h.p. BTD-8 (80 series) crawler tractor, has been announced by the International Harvester Company of Great Britain, Ltd., 259 City Road, London, E.C.1.

It uses the direct lift principle, the hydraulic system being a closed one with relatively high pressures of 1,500 p.s.i. The front-mounted pump is well protected, being assembled well within the tractor's regular heavy steel frame and radiator guard. The high working pressures of the system allow the use of small diameter pistons which, together with the 21 g.p.m. pump delivery at rated engine speed, give precise blade control even at intermediate engine speeds.

The makers claim that on test, excavations of up to 176 cu. yd. an hour have been made on a 60ft. push and 142 cu. yd. over a 100ft. push.

SOILTEST DUCTILITY TESTING MACHINE

A machine for testing the ductility of bituminous materials has been produced by Soiltest, Inc., Chicago, Ill. It measures the distance a specimen will elongate before breaking when pulled apart at a specific uniform speed and temperature.

The apparatus is mounted in a double-wall polished stainless steel bath, 80in. long, 12in. wide and 12¾in. deep. Water in this bath surrounds the entire test unit and is kept at a uniform temperature throughout by means of an automatic agitator that constantly circulates the water. The test results are measured on a scale 150 centimetres long mounted on a top edge of the tank so the operator can observe results while the test is in progress.

The machine's motor drive is variable and can be locked at any speed so that operating configurations may be repeated from one test to another. A cut-off on the motor prevents test over-runs. The tester will accommodate three individual briquette specimens.

NEW GEARBOX FOR FORDSON DEXTA

Improved choice of gears in the lower speed range and increased power at the power-take-off are given by a new gearbox which is now being fitted in the Fordson Dexta tractor manufactured at Dagenham by the Tractor Division, Ford Motor Co., Ltd.

The new road speeds will be: first gear, .51 m.p.h. at 800 r.p.m.; second gear, .92 m.p.h.; third gear, 1.53 m.p.h. There is therefore a choice of three gears of under 1¾ m.p.h. at 800 r.p.m., while a top speed of 15½ m.p.h. at 2,000 r.p.m. in top gear is retained.

The engine revolutions for a correct p.t.-o speed of 540 r.p.m. have been altered from 1,550 to 1,800 r.p.m. with a resultant increase of 3-h.p. (from 28-h.p. to 31-h.p. at the engine) showing a corresponding increase in h.p. available at the p.t.-o from 25-h.p. to 28-h.p. Belt pulley changes have been made to maintain a correct belt speed of 3,000ft./min. at 2,000 r.p.m.

LEWIN SWEEPERS FOR LOW COUNTRIES

An agreement has recently been signed between the Brockhouse Organisation of West Bromwich, Staffordshire, and Kronenburg of Hedel, Holland, for the assembly and sales of Lewin mechanical sweepers in the Benelux countries.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Barnsley, Yorks.—B.C. recommended to apply for consent to borrow £2,000 for provision of new dance floor at Baths Hall.

Basingstoke, Hants. — Wessex Regional Hospital Board recommended to approve sketch plans for extension to mortuary at Park Prewett Hospital.

Bournemouth, Hants. — Wessex Regional Hospital Board recommended to approve sketch plans for an out-patient department at Royal Victoria Hospital, Westbourne, and accommodation for geriatrician at Christchurch Hospital.

Chanctonbury, Sussex.—R.D.C. have approved the modernisation of 25 pre-war Council houses at Sopers, Pulborough. Estimated cost £9,700.

Doncaster, Yorks.—Cecil Howitt and Partners, St. Andrew's House, Mansfield Road, Nottingham, are the architects for the erection of licensed premises at Everingham Road, stage 3, Cantley estate.

Dorchester, Dorset. — Wessex Regional Hospital Board recommended to approve sketch plans for improvements to operating theatres at Dorset County Hospital and adaptations to nurses' home and extension to occupational therapy department at Herrison Hospital.

Fareham, Hants.—Wessex Regional Hospital Board recommended to appoint R. Lewis Reynish, Kent Lodge, Queens Crescent, Portsmouth, as architect, and D. A. Degerden, 12 Goodwin's Court, London, W.C.2, as quantity surveyor, for new group stores at Knowle Hospital.

Kent.—C.C. plan the erection of old people's homes at Stanhope School, Kingsnorth, Ashford, and in the Sittingbourne Faversham area and opposite Milton Regis Hospital.

Newcastle upon Tyne.—City Council to apply for sanction to borrow £756,090 for erection of new College of Further Education at Maple Terrace.

City Council recommended to approve the following works: College of Further Education —erection of temporary classrooms and workshops at Maple Terrace, £20,000; adaptation of premises in Chillingham Road as additional accommodation for College of Art, £5,000; adaptation of Middle Street schools on reorganisation, £2,500; erection of additional classroom for Elswick Road Secondary School, £7,000; erection of additional classrooms for Westgate Hill Secondary School, £3,000.

City Council recommended to approve scheme for sound-proofing of flats at West Denton. Estimated cost £7,228.

Newport, I. of W.—Wessex Regional Hospital Board recommended to approve sketch plans for accommodation for mental patients at St. Mary's Hospital.

Norton-Radstock, Som.—U.D.C. have approved in principle for the erection of a youth centre at Radstock. Estimated cost £12,000.

Nottingham.—R. G. Lawrence, Stratton Strawless Hall, Norwich, propose the erection of a seven-storey block of offices and a petrol filling station at the old brewery site near Victoria Station. Estimated cost £400,000.

Plymouth, Devon.—City Council recommended to approve plans and obtain a tender from a specialist contractor for reinforced concrete for first phase of the court buildings to be erected adjacent to the Guildhall, comprising structural framework, floor and roof slabs; the second phase will be put out to tender at a later stage.

City Council recommended to approve the erection of public conveniences at junction of Trefusis Gardens and Old Laira Road, Ham Drive and Ernesettle; apply for sanction to borrow £3,013 for the provision of dressing accommodation at Whiteleigh, Ernesettle Green and Devonport Park Football Grounds.

Portsmouth. — Wessex Regional Hospital Board recommended to appoint T. K. Makins, 4 Landport Terrace, as architect, and T. Lamble and Partners, Kent Lodge, Queens Crescent, as quantity surveyors, for the construction of an artificial limb and appliance centre at St. Mary's Hospital; approve sketch plans for extensions to mortuary at Gosport Hospital.

Ramsgate, Kent.—B.C. recommended to approve outline application for alterations to form a two-storey retail shop at the site of Sangers Hotel and Palace Theatre, High Street, for Central Commercial Properties, Ltd. Cotton, Ballard and Blow, 5 Baker Street, London, W.1, are the architects for the scheme.

Ripon, Yorks.—City Council recommended to approve planning application for alterations to St. Olaves School and classrooms for Dean and Chapter and erection of new hall, chapel block, staff hostel, etc., at Training College, College Road, for the Governors of Training College.

Smethwick, Staffs. — B.C. recommended to submit to Ministry for inclusion in the 1961-62 programme, scheme for the erection of a further home for mentally disordered persons. Estimated cost £35,000.

Westminster.—City Council recommended to appoint Powell and Moya, 36 Great Smith Street, London, S.W.1, as the architects to prepare sketch plans for redevelopment of the site of 137 and 139 Lupus Street with a new building as a westward extension of Nash House, to provide accommodation for the Housing Management office, with flats above.

Windsor, Berks.—Co. E.C. have approved the completion of Windsor County Boys' Grammar School. Estimated cost £79,760.

Winsford, Ches.—Herbert Fitzroy Robinson and Partners, architects, 3 Gray's Inn Square, London, W.C.1, are to prepare scheme for the construction of a new town centre for U.D.C.

Wokingham, Berks.—Co. E.C. recommended to approve the erection of a new unit at St. Crispin's County Modern School. Estimated cost £16,720.

Worthing, Sussex. — West Sussex E.C. have approved, subject to M.E. approval, the provision of a machine tools laboratory and metrology laboratory at the Worthing College of Further Education. Estimated cost £1,100.

ELECTRICAL

Lanchester, Dur.—R.D.C. have approved installation of modified electrical lighting system in over 500 older Council houses.

Plymouth, Devon.—City Council recommended to approve scheme for the installation of traffic signals, including filtering arrangements, for controlling the junction of Union Street/Western Approach. Estimated cost £4,000.

GAS AND WATER SUPPLY

Ashburton, Devon.—U.D.C. to prepare in conjunction with the South Devon Water Board scheme for the provision of a new service reservoir at Water Turn.

Bedford.—B.C. recommended to apply for sanction to borrow £7,700 for repairs, alterations and installation of apparatus at Bromham Mill. Estimated cost £7,700.

Chipping Norton, Oxon.—R.D.C. propose scheme for the improvement of the water supply at Salford. Estimated cost £3,000.

HOUSING SCHEMES

Braunton, Devon.—James Dennis and Son, Knowle, Braunton, propose the erection of 20 bungalows, garages and shops at Caen Field.

Bridge Blean, Kent.—R.D.C. recommended to approve the provisional housing programme for 1961-62 comprising 50 housing units at Ickham, Hackington, Blean, Wickhambreaux, Hersden and Bridge.

Colchester, Essex.—Dolphin Development and Management Co., Ltd., Duncan House, Dolphin Square, London, S.W.1, have submitted to B.C. for approval detailed plans for the erection of 45 bungalows at Mill Road estate.

Gravesend, Kent.—B.C. to prepare and submit to C.C. for planning permission scheme for erection of one-bedroom flats and single persons' flats in eight storeys at Milton Place, opposite Fort Gardens.

Harrogate, Yorks.—B.C. recommended to approve outline application for erection of three 12-storey blocks of flats, a maisonnette block and garages at Park Place, Park Parade, for James Cubitt and Partners, Yorks Penny Bank Chambers, James Street.

Leamington Spa, War.—B.C. recommended to approve, subject to conditions, outline application for redevelopment of land by blocks of flats and garages at Old Mill House, Warwick New Road, for T. B. Freeman, 2 Emscote Road, Warwick; either 12 blocks of maisonnettes (four per block) or 48 flats at Gunnery Farm, Cornwall Place, for Band Hatton and Co., 9-11 High Street, Coventry; three blocks of three-storey flats (42 flats) and 42 lock-up garages at Brookhurst, Beverley Road, for W. A. Blackburn, Ltd., London Road, Coventry.

Plymouth, Devon.—City Council recommended to approve scheme for the erection of 23 old people's flatlets, one warden's flat and six flats at St. Mary Street, Stonehouse.

PLANT AND MECHANICAL TRANSPORT

Lytham St. Annes, Lancs.—B.C. recommended to apply for sanction to borrow £9,000 for the purchase of two Speedyload refuse collecting vehicles.

ROADS, BRIDGES AND SITE WORKS

Ashburton, Devon.—U.D.C. have approved plan prepared by A. S. Newcombe, architect, 2 St. Paul's Road, Newton Abbot, for the provision of a car park at rear of Town Hall.

Erith, Kent. — B.C. have approved scheme for the provision of a car park at Stonewood Road.

Gosport, Hants.—B.C. recommended to approve plans for making-up of Petrie Road and Court Road, Lee-on-Solent.

Luton, Beds. — B.C. recommended to approve plans for making-up Green Lane and Sandgate Road and improvement of Icknield Way, from Neville Road Bridge to junction with Bramingham Road.

Mansfield Woodhouse, Notts.—U.D.C. to submit to M.T. for approval scheme for the widening of Albert Square, Albert Street and Park Hall Road. Estimated cost £22,000.

Ramsgate, Kent.—B.C. recommended to prepare and submit to M.T. and C.C. for grant aid, alternative schemes for the construction of a footpath at the south side of Canterbury Road West.

Swansea.—B.C. to apply for sanction to borrow £25,721 for the widening of Gower Road, Killay, from St. Hillary's Church to the borough boundary.

Walsall, Staffs. — B.C. recommended to apply for sanction to borrow £28,365 for the first stage of the reconstruction of roads in Digbeth, Lower Hall Lane, and the adjoining area.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bridge Blean, Kent. — R.D.C. recommended to prepare a revised scheme for the main drainage of Adisham; approve in principle the main drainage scheme for Tonford Lane and Ashford Road areas of Thanington Without. Estimated cost £15,900.

Cookham, Berks.—C.C. have granted R.D.C. permission to erect a sewage pumping station adjoining Windsor Road, Bray.

Newbury, Berks.—R.D.C. have approved in principle the provision of main drainage for the Wickham area, and are to prepare a detailed scheme for consideration.

Petworth, Sussex.—R.D.C. to prepare a sewerage scheme for Bury to serve as the first instalment of a comprehensive scheme for the villages of Bury, Westburton, Bignor and Sutton.

Ripon, Yorks.—City Council recommended to approve for submission to the Ministry, scheme for the construction of a storm-water sewer and foul sewer in North Street. Estimated cost £24,400.

Tonbridge, Kent. — R.D.C. have approved in principle the construction of sewage disposal works at Bidborough. Estimated cost £7,500.

STREET LIGHTING

Stretford, Lancs.—B.C. recommended to apply for sanction to borrow £11,900 for conversion of remaining gas lamps to electric, for the third post-war lighting improvement scheme.

CONTRACTS

*Full details of the Contracts marked * will be found in our Advertisement Columns.*

BUILDING AND DECORATING

(See also Housing Schemes)

Abercarn, Mon.—Construction of approx. 100 super. yd. of 9in. brick forecourt wall to 1-11 (odd) inclusive, Pentwyn Terrace, Trinant, together with the provision and fixing of metal gates, for U.D.C. Documents from the office of the Surveyor, Council Offices, Abercarn. Deposit £1 1s. Tenders by Aug. 30.

Bedford.—Erection of seven shops, three flats and three maisonnettes at Brickhill, for B.C. Applications to F. W. Dawkes, borough engineer and surveyor, Newnham House, Horne Lane, Bedford, by Aug. 12. Deposit £3 3s.

***Brighouse, Yorks.**—Supply three bus passenger shelters for B.C. Tenders by Aug. 31.

Carmarthenshire.—Erection of a secondary modern school at Llanstephan Road, Carmarthen, having a floor area of approx. 48,000 sq. ft. for C.C. Applications to W. T. Lloyd, county architect, County Hall, Carmarthen, by Aug. 6. Deposit £5 5s. Tenders by Sept. 6.

Cornwall.—Erection of a new divisional headquarters at Camborne for Cornwall and Isles of Scilly Combined Police Authority. Applications to the County Architect, County Hall, Truro, by Aug. 6. Deposit £3 3s. Tenders by Sept. 9.

Croydon, Surrey.—Erection of a new swimming bath on the community centre site, Central Parade, New Addington, for B.C. Documents from the Borough Engineer, Town Hall, Croydon. Tenders by Sept. 2.

Down.—Supply and fixing of metal windows at the new technical intermediate school, Banbridge, for Co. E.C. Documents from R. Ferguson and S. McIlveen, architects, 15 College Gardens, Belfast, 9. Deposit £2 2s. Tenders by Aug. 11.

Greenwich.—Erection of a new branch library at Brook Lane, Kidbrooke, London, S.E.3, for B.C. Applications to Borough Engineer and Surveyor, Town Hall, Greenwich High Road, London, S.E.10, by noon, Aug. 30, must include details of similar work undertaken recently.

Holland.—Construction of a reinforced concrete swimming pool at the Gleed County Secondary Schools, Spalding, for C.C. Documents from the County Architect, County Hall, Boston, Lincs. Tenders by Aug. 15.

Lancashire.—Following for C.C.: Repairs to macadam and flag paving at the Nelson Grammar School; extensions to form new staff room and alterations to form kitchen at the Newton-le-Willows Lyme County Infants' School (work is of traditional construction and includes services, drainage and finishes); rewiring of electrical installation at the Darwen Spring View County School; alterations to girls' cloaks and extensions to form kitchen at the Ashton-in-Makerfield St. Thomas C.E. School (work is of traditional construction and includes services, drainage and finishes). Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Aug. 8.

Leicestershire.—Selected list of contractors for the erection of residential hostels at Loughborough College, for C.C. Applications to County Architect, 123 London Road, Leicester, by Aug. 15. Tenders by Sept. 19.

Londonderry.—Portstewart Primary School, second extension, for Co. E.C. Documents from C. G. Dalzell, Bath Street, Portrush. Deposit £5. Tenders by Aug. 15.

Malmesbury, Wilts.—Construction of a reinforced concrete swimming pool 100ft. by 40ft., with ancillary works and services, on a site near Alexander Road, for B.C. Documents from the Borough Surveyor, Town Hall, Malmesbury. Deposit £5 5s. Tenders by Aug. 27.

Manchester.—Alterations at Hall Lane Police Station, Wythenshawe, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 16.

Northern Ireland.—External repainting of 137 dwellings at Ballyclare, for Housing Trust. Documents from the offices of the Trust, 12 Hope Street, Belfast. 12. Tenders by Aug. 10.

Pembrokeshire.—Erection of a new infants' school at Golden Lane, Pembroke, designed to accommodate 120 pupils, for Co. E.C., consisting of a single-storey block, together with surrounding site works, etc. The general construction will be load-bearing brickwork and a small section of steel framework with a proprietary precast concrete roof. Contractors will be required to give proof that they are in a position to provide sufficient labour, and applications, giving details of ability to carry out this contract in an expeditious and workmanlike manner, to Lt.-Col. Walter Barrett, county architect, County Offices, Haverfordwest, before Aug. 8. Deposit £2 2s.

Portsmouth. — Remodelling of D floor as reorganised pharmacy department, College of Technology, for City Council. Applications to the City Architect, 1 Western Parade, Portsmouth, by Aug. 10. Deposit £1.

Smethwick, Staffs.—Conversions to provide bathroom accommodation, etc., at 33 houses in Avery Road, for B.C. Written applications to the Borough Engineer and Surveyor, Council House, Smethwick, by Aug. 15. Deposit £2 2s. cheque. Tenders by Sept. 9.

Spenborough, Yorks.—Following work (all trades or separate trades) for the proposed market arcade, Albion Street, Cleckheaton, for B.C.—Demolition, bricklayer and drainage, joiner, plasterer, roofer, plumber, electrician, painter and shopfitter. Documents from the Borough Engineer and Surveyor, Spenborough Town Hall, Cleckheaton. Deposit £2 2s. Tenders by Aug. 12.

Sunderland, Dur. — Internal and external painting at various educational premises, for B.C. Documents from the Director of Education, 15 John Street, Sunderland. Tenders by Aug. 11.

Thingoe, Suffolk. — Modernisation of four houses, Rushford Road, Coney Weston, and three at Coney Weston Road, Barningham, for R.D.C. Documents from the Surveyor, 1 Northgate Street, Bury St. Edmunds. Tenders by Aug. 30.

West Riding.—Internal and external redecoration of Harrogate Oatland Mount County Primary School for C.C. Documents from the Divisional Education Officer, Municipal Buildings, Harrogate. Tenders by Aug. 11.

CLOTHING AND TEXTILES

***Leeds.**—Supply of uniform clothing for City Police. Tenders by Aug. 29.

Wortley, Yorks.—Supply and delivery of 48 overcoats for R.D.C. Documents from the Chief Public Health Inspector, Council Offices, Grenoside, near Sheffield. Tenders by Aug. 13.

DEMOLITION

Northamptonshire. — Demolition of 1-9 Kettering Road, and 2-12 High Street, Burton Latimer, for C.C. Applications to the County Surveyor, Guildhall Road, Northampton. Tenders by Aug. 12.

Penge, Kent.—Demolition of four three-storey and two two-storey dwelling houses for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Anerley Road, London, S.E.20. Deposit £2. Tenders by Aug. 19.

Peterborough. — Complete demolition of properties known as 94 and 96 High Street, Eye, together with the total clearance of the site, for C.C. Documents from the County Surveyor, County Offices, Bridge Street, Peterborough. Tenders by Aug. 15.

Sunderland, Dur.—Demolition of Southwick Depot, Gordon Terrace, for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 1s. Tenders by Aug. 24.

Wrexham, Denbighs.—Following for B.C.: (a) Demolition of 91 houses within the borough; (b) restoration of stonework to the cemetery chapel. Documents from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham. Deposit £1 1s. each. Tenders by Aug. 12.

ELECTRICAL

Belfast.—Electrical installation in meals kitchen at Christian Brothers' Voluntary Secondary Intermediate School for Boys, Glen Road, for Antrim County Education Committee. Documents from Daniel J. MacRandal, chartered architect, 17 Malone Road, Belfast, 9. Deposit £3 3s. cheque. Tenders by Aug. 19.

Farnborough, Hants.—Installation of 218 power points together with other incidental work in 48 dwellings on Knellwood estate, for U.D.C. Documents from the Engineer and Surveyor, Municipal Offices, Alexandra Road, Farnborough. Tenders by Sept. 1.

Manchester.—Electrical installation to extensions at Whalley Range High School, for City Council. Documents from City Architect, P.O Box 488, Town Hall, Manchester. Tenders by Aug. 12.

Shannon, Eire.—Installation of electrical services in the new freight terminal at Shannon Airport, for Department of Transport and Power. Applications to Department of Transport and Power, Kildare Street, Dublin. Deposit £3. Tenders by Aug. 25.

FENCING

Belfast.—Supply and delivery of wrought-steel gates, panels and railings at Roselawn Cemetery, Crossnacreevy, for City Council. Documents from City Architect's Office (Room 53), City Hall, Belfast, 1. Tenders by Aug. 17.

East Ham.—Supply and erection of 890yd. of galvansied tubular steel fencing to the central reservation of the East Ham and Barking By-pass Road, for B.C. Documents from the Borough Engineer, Town Hall, London, E.6. Deposit £2 2s. Tenders by Aug. 15.

***Newbury, Berks.**—Bath Road housing estate fencing for B.C. Tenders by Sept. 1.

Newry, Down.—Supply and delivery of wrought-iron balustrading at the new voluntary intermediate school for girls, for Most Rev. E. O'Doherty, D.D., Documents from F. M. Corr and W. H. D. McCormick, architects, 23 Cromac Square, Belfast. Deposit £5 5s. cheque. Tenders by Aug. 15.

GAS AND WATER SUPPLY

Bullingdon, Oxon. — Construction of a 200,000 gallons capacity reinforced concrete water tower, together with two pumping and treatment houses, at Field Farm, Dorchester, for R.D.C. Applications to the Engineer and Surveyor, 76 Banbury Road, Oxford, by Aug. 15.

East Riding.—Supply and delivery of 1,416 lin. ft. of 45in. and 48in. internal diameter reinforced concrete cylindrical pipes delivered carriage paid to Woodhall Way, Molescroft, near Beverley, for C.C. Applications to the County Surveyor, County Hall, Beverley. Tenders by Aug. 10.

***Morley, Yorks.**—Construction of water treatment plant, contract 1 for B.C. Deposit £3 3s. Tenders by Aug. 29.

HEATING AND VENTILATING

Harrogate, Yorks.—Reorganisation of the central heating installation at the No. 3 District Police Training Centre, Pannal Ash, for Local Authority Committee. Applications to the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate, by Aug. 8. Tenders by Sept. 2.

HOUSING SCHEMES

Carlton, Notts.—Twenty-four houses together with incidental works at Phoenix Farm, site 36, scheme 91, for U.D.C. The site has been prepared with roads and sewers and this contract is for building work only. Documents from the Office of E. C. Kirk, engineer and surveyor, Council House, Burton Road, Carlton. Deposit £2. Tenders by Aug. 10.

Cumberland. — Following for C.C.: (a) Brampton, Parkhead estate (one pair of semi-detached police houses); (b) Millom, Devonshire Road (one pair of semi-detached police houses). Documents from H. R. Clark, acting county architect, 15 Portland Square, Carlisle. Plans also seen at Millom Police Station. Tenders by Aug. 23.

Denton, Lancs.—Thirty-two bungalows (in blocks of four each), Dark Lane Farm, site 3, scheme 2, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Denton. Deposit £2 2s., cheques payable to U.D.C. Tenders by Sept. 8.

***Huddersfield, Yorks.**—Northgate, Almondbury redevelopment for B.C. Deposit £2 2s. Tenders by Sept. 15.

Longbenton, Northumb.—Following housing programme, 1960, for U.D.C.: Scheme 1—26 aged persons' bungalows and recreation room, also roads and sewers at Clousden Hill, Forest Hall, and landscaping; scheme 2—19 aged persons' bungalows and one pair of two-bedroom type houses at Northern Terrace, Dudley, also landscaping. Applications, in writing to A. E. Sweetman, Council Offices, Forest Hill, Newcastle upon Tyne, 12, before Aug. 12. Deposit £3 3s.

MATERIALS AND SUPPLIES

Sunderland, Dur.—Supply of the following for six months commencing Oct. 1 next, for B.C.: (1) Steel wire reinforcement for concrete; (2) decorating materials (paint, etc.); (3) earthenware pipes, junctions, etc.; (4) cast-iron rainwater and soil goods; (6) timber; (7) kerbs and flags; (14) Portland cement (17) bitumen macadam, broken stone, sand, etc.; (19) gullies, manhole covers, firegrates, etc. Samples may be seen at Eden Vale Depot, Sunderland. Documents from the Public Works Manager, Ivor House, 1-3 Otto Terrace, Sunderland. Tenders by Aug. 13.

Surrey. — Supply of 550 tons rock salt to specification of B.S.3247:1960, for C.C. Documents from the County Engineer, County Hall, Kingston-upon-Thames. Tenders by Aug. 11.

PLANT AND MECHANICAL TRANSPORT

Durham.—Supply of the following for C.C.: Two water carts; one air compressor; six mechanical gully emptiers; one crawler tractor shovel; two water pumps; 20 snowploughs; two pneumatic poker vibrators; four light dumper wagons; four gritter bodies; seven industrial tractors, with attachments; one kerb dresser; one verge trimmer. Tenders, in envelopes endorsed "Tender for Large Plant," to J. K. Hope, clerk of the County Council, Shire Hall, Durham, by noon, Aug. 12.

RIVER AND FLOOD PREVENTION WORKS

Essex. — Following for River Board: Construction of 485yd. of reinforced concrete parapet wall 6ft. 6in. high, on the western

half of the frontage of the Tilbury power station to the River Thames. The concrete superstructure (approximately 1,000 cu. yd.) will be founded on about 150 12in. by 12in. by 65ft. long greenheart piles jointed at the centre. The greenheart for the piles will be supplied by the Board. The contract will also include 12,000 cu. yd. of excavation and the driving of 130 tons of steel shet piling. It is anticipated that the successful contractor will be able to start work within the next three months. Applications, together with a schedule of works of similar character recently carried out, should be sent to the Engineer, Essex River Board, Rivers House, New Writtle Street, Chelmsford, by Aug. 6.

Nottingham.—Remedial works on the north bank of the River Trent between Wilford toll bridge and a point approximately 500yd. downstream of it for Trent River Board. The work comprises the demolition of approximately 230 lin. yd. of old and damaged concrete river steps, and the removal of timber cut-off piles, the driving of approximately 430 lin. yd of 19ft. long steel sheet piles, and the construction of concrete steps and capping beams involving about 1,120 cu. yd. of concrete. Applications to the Engineer, Trent River Board, 206 Derby Road, Nottingham, by Aug. 15. Deposit £5.

Ripon and Pateley Bridge, Yorks.—Construction and maintenance of the protection wall to the bank of Thornton Beck at Shaw Mills, for R.D.C. Documents from John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6. Deposit £3 3s., cheques payable to R.D.C. Tenders by Aug. 22.

ROADS, BRIDGES AND SITE WORKS

***Brierfield, Lancs.**—Making-up three streets for U.D.C. Tenders by Aug. 20.

Caithness. — Reconstruction of approximately 0.90 miles of road on route A.9 at Ousdale, about 31 miles south of Wick for C.C. Works of excavation, embankment, drainage, carriageway foundations and surfacing, together with two new reinforced concrete culverts, are involved. Documents from the offices of the County Surveyor, County Offices, Wick. Deposit £8 (cheques payable to C.C.). Plans also seen at the offices of the Chief Road Engineer, Scottish Home Department (Roads Division), Bankhead Avenue, Sighthill, Edinburgh, 11. Tenders by Aug. 10.

Caithness. — Reconstruction of approximately 1.3 miles of road on route A.895 from Benachielt to Newlands of Latheron for C.C. Works of excavation, embankment, drainage, carriageway foundations and surfacing are involved. Documents from the offices of the County Surveyor, County Offices, Wick. Deposit £8 (cheques payable to C.C.). Tenders by Aug. 10.

***Clare, Suffolk.**—Roadworks for R.D.C. Tenders by Sept. 5.

Denbighshire.—Reconstruction of Wenffrwd Bridge (route A.539), for C.C., including the demolition of the existing bridge the construction of a new bridge of 24ft. skew span, for the realignment of approx. ¼ mile of road, for diverting a sulvert, and for sundry accommodation works including the erection of a domestic garage. Documents from the County Surveyor, 46 Clwyd Street, Ruthin. Deposit £10. Tenders by Aug. 26.

Droylsden, Lancs.—Construction of concrete bus bays on various classified roads for U.D.C. Documents from H. H. Emery, engineer and surveyor, Council Offices, Droylsden. Tenders by Aug. 13.

Edinburgh.—Making-up part of Milton Crescent in bitument macadam for City Council. Documents from City Engineer, 329 High Street, Edinburgh. Tenders by Aug. 10.

Folkestone.—Surfacing of carriageway, Cornwallis Avenue and service road, Dover Road, for B.C., including 4,700 sq. yd. of carriageway with cold apshalt wearing course, 3,850 sq. yd. dense tar base course, and 200 tons dense tar regulating course. Documents from E. L. Allman, borough engineer, West Terrace, Folkestone. Tenders by Aug. 10.

***Harrow, Middx.**—Repairing and resurfacing Whitchurch Lane, for B.C. Deposit £2. Tenders by Aug 16.

***Harrow, Middx.**—Repairing and resurfacing Elm Park Road, for B.C. Deposit £2. Tenders by Aug. 16.

Hayes and Harlington, Middx.—Filling-in underground shelter for U.D.C., comprising breaking-in the roof of a reinforced concrete underground shelter, filling-in of trench, and reinstatement. Documents from Engineer and Surveyor, Town Hall, Hayes. Deposit £1 1s. to Treasurer of the Council, P.O. Box 6, Hayes. Tenders by Aug. 15.

***High Wycombe, Bucks.**—Making-up part of Hampden Road, for B.C. Deposit £2 2s. Tenders by Aug. 19.

Ilford, Essex.—Improvement of Hainault Road, for B.C., including the excavation for and the construction of approx. 15,000 sq. yd. of 6in. lean-mix concrete sub-base and 8in. reinforced concrete carrigeaway slab, the provision of approx. 4,000 lin. yd. of concrete kerb, and approx 4,000 sq. yd. of footway, together with ancillary drainage works. Documents from the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. Tenders by Aug. 23.

***Kirkby, Lancs.**—Making-up North Park Road and South Park Road, for U.D.C. Deposit £2 2s. Tenders by Aug. 25.

Leicester.—Maintenance repairs and reinstatements to hot-rolled asphalt and rock asphalt road surfaces for City Council. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Tenders by Aug. 19.

Leicester.—Knighton Road (part) improvement, reconstruction of carriageway, footways and miscellaneous works for City Council, including 700 sq. yd. lean-mix concrete carriageway; 1,500 sq. yd. bitumen macadam surfacing to carriageway; 1,700 sq. yd. bitumen macadam footways; 100 sq. yd. 9in. brickwork boundary wall; together with site clearance and accommodation works. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £1 1s. Tenders by Aug. 17.

Middlesex.—Laying by Barber-Greene or other approved machine approx. 1,000 tons hot-rolled asphalt wearing course having a pitch-bitumen binder on the carriageway of Church Road, Northolt, between Western Avenue and Ruislip Road, for C.C. Documents from the County Engineer, Middlesex House, 20 Vauxhall Bridge Road, Westminster, London, S.W.1. Tenders by Aug. 10.

Manchester.—Construction of 13,210 sq. yd. of carriageway, 2,275 lin. yd. of 9in.-27in. dia. sewer and culvert works, and ancillary works, at Ancoats redevelopment area, Mill Street, site, for City Council. Documents from City Surveyor, (Room 208), Town Hall, Manchester, 2. Tenders by Aug. 29.

North Shields, Northumb.—Preparation of formation and construction of a cement stabilised temporary road at Northumberland Dock, North Shields, for Tyne Improvement Commission. Documents from R. N. Eggleton, secretary, Bewick Street, Newcastle upon Tyne, 1. Deposit £2 2s. Tenders by Aug. 15.

Rhondda, Glam.—Road completion works on housing site at Mountain View, Llwynypia, for B.C., including approx. 2,610 super. yd. tarmacadam to roads; 1,680 super. yd. tarmacadam to footpaths; 855yd. run 6in. by 5in. precast concrete kerbs; 620yd. run 8in. by 2in. precast concrete path edging. Documents from C. Gingell, borough architect, 13 Ystrad Road, Pentre, Rhondda. Deposit £3 3s., cheques payable to B.C. Tenders by Aug. 20.

Romford, Essex.—Resurfacing of main road between Pettits Lane and Heath Drive, for B.C., involving the taking-up and re-laying of approx. 1,800 lin. yd. of kerb, 4,000 sq. yd. of slab paving, 3,500 sq. yd. of macadam footway, and 9,000 sq. yd. of carriageway surfacing with 1½in. hot-rolled asphalt, together with regulating and base course, and various ancillary works. Documents from the Borough Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s. Tenders by Aug. 15.

***St. Albans, Herts.**—Making-up Guildford Road and Hedley Road, for City Council. Tenders by Aug. 17.

Sunderland, Dur.—Car park at Nile Street, for B.C., comprising 1,700 sq. yd. of hardcore and bituminous macadam surfacing. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. Tenders by Aug. 16.

Walthamstow, Essex.—High Street improvement for B.C., including the surfacing of approx. 8,600 sq. yd. of existing concrete carriageway with single course hot-rolled asphalt kerb dressing and the re-laying of existing paved footways, and other incidental works. Documents from the Borough Engineer and Surveyor, Town Hall, Walthamstow. Deposit £2 2s. Tenders by Aug. 24.

Worsley, Lancs.—Making-up of the following for U.D.C.: Abbots Ford Road; Brougham Street; North Grove; South Grove; West Avenue; Shalbourne Road; Kingsley Road (part); Hyde Road (part). Documents from the office of the Engineer and Surveyor, Town Hall, Walkden. Deposit £2 2s., cheques payable to U.D.C. Tenders by Aug. 13.

Wortley, Yorks.—Flag paving of footpath, Mortomley Park, High Green for R.D.C. Documents from Arthur Wikeley, engineer and surveyor, Council Offices, Grenoside, Sheffield. Tenders by Aug. 19.

Wrexham, Denbighs. — Resurfacing of carriageways, Chester Street (A.483), Bodhyfryd to High Street, Ruabon Road (A.483), Empress Road to cemetery entrance for B.C., including the machine laying of approximately 4,800 sq. yd. of hot rolled asphalt carpeting 1½in. thick, together with incidental works of taking-up existing asphalt surfacing, repairing concrete base and expansion joints, burning off, provision of underlay and the resetting of manholes, gullies and boxes to new levels. Documents from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham. Deposit £2 2s. Tenders by Aug. 15.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

***Altrincham, Ches.**—Main sewerage, contract 3 for B.C. Apply by Aug. 13. Tenders by Oct. 17.

***Bingham, Notts.**—Whatton sewerage extensions for R.D.C. Deposit £5 5s. Tenders by Aug. 31.

Brackley, Northants.—Main drainage of Lower Middleton Cheney, B24/15 contract 2 for R.D.C., including the laying of approx. one mile of small-diameter sewers, the construction of lateral and house connections, and other ancillary works. Documents from the offices of Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, Westminster, London, S.W.1, by Aug. 19. Deposit £3 3s., cheques payable to R.D.C. Tenders by Aug. 29.

***Clare, Suffolk.**—Kedington and Great Wratting, sewerage and sewage disposal for R.D.C. Apply by Aug 22. Deposit £10.

***Darlington, Dur.** — Whessoe sewerage scheme for R.D.C. Deposit £5 5s. Tenders by Sept. 5.

Durham.—Newton Hall outfall sewer for City Council, including the construction of approx. 2,400 lin. yd. of 9in. to 21in. diameter foul sewers and manholes. Documents from the office of the City Engineer, Town Hall, Durham. Deposit £2 2s. Tenders by Sept. 13.

Hartismere, Suffolk. — Mendlesham Green, sewer connections and drainage systems to eight existing houses at Mendlesham Green for R.D.C. Documents from G. M. Kenworthy, council's engineer and surveyor, engineer and surveyor's department, Lambseth Street, Eye. Deposit £2 2s. Tenders by Aug. 10.

Ipswich, Suffolk.—Surface water drainage scheme, Bramford Road/Henniker Road area, for B.C., including the construction of approx. 1,150 lin. yd. of surface water sewers in strengthened pipes between 30in. and 15in. diameter; approx. 270 lin. yd. of surface water sewers in plain concrete pipes between 12in. and 6in. diameter, together with manholes, gullies, and other incidental works. Documents from the office of the Borough Engineer, 19 Tower Street, Ipswich. Deposit £5 5s. Tenders by Sept. 1.

Londonderry.—Supply and erection of one automatic ejector (or other similar and approved equipment) in the existing sewerage works at park, for R.D.C. Documents from the offices of W. D. R. and R. T. Taggart, consulting engineers, 13 College Gardens, Belfast, 9. Tenders by Sept. 2.

Meriden, War.—Hampton Lane and Maxstoke Lane sewerage scheme for R.D.C., including the construction of approx. 950 lin. yd. of 6in. diameter glazed stoneware foul sewer, together with 17 precast concrete manholes and all ancillary works. Documents from the office of the Engineer and Surveyor, Old Vicarage, High Street, Coleshill, Birmingham. Deposit £2 2s. Tenders by Sept. 10.

Nidderdale, Yorks. — Rufforth sewerage scheme for R.D.C., including the laying of approx. 3,300yd. of 9in. and 6in. sewer, and 4in. rising main, with manholes and ancillary works. Documents from the office of W. K. Rodwell, consulting engineer, 40 North Street, Wetherby. Deposit £2 2s., cheque payable to R.D.C. Tenders by Sept. 7.

Royston, Yorks.—Providing and installing duplicate compressed air sewage ejector plant at Summer Lane for U.D.C. Documents from the Surveyor, Council Offices, Royston, near Barnsley. Tenders by Aug. 25.

Stamford, Lincs.—Sewage disposal works extensions 1960, for B.C., including the construction of reinforced concrete of three 36ft. diameter sludge digestion tanks, each of 130,000 gallons capacity; two pyramidal humus tanks, each of 16,000 gallons capacity, and ancillary works. Documents from the offices of Pick, Everard, Keay and Gimson, engineers, 6 Millstone Lane, Leicester. Deposit £5 5s., cheques payable to B.C. Tenders by Aug. 15.

Swindon, Wilts.—Construction of approx. 1,060yd. of 45in.-39in. diameter concrete pipe sewer, together with brick manholes and ancillary work for B.C. Documents from the Borough Engineer, Civic Offices, Swindon. Deposit £2 2s., payable to Corporation. Tenders by Aug. 15.

Totnes, Devon.—Morleigh sewerage and sewage disposal for R.D.C., including the construction of about 642yd. of 6in. sewer with manholes and incidental works, together with purification works comprising septic tank, percolating filter, humus tank, and allied items. Documents from the Engineer and Surveyor, Council Offices, Higher Plymouth Road, Totnes. Deposit £2 2s. Tenders by Sept. 1.

Wainford, Suffolk.—Homersfield sewerage and sewage disposal works for R.D.C., including the construction of approx. 670yd. of 6in. glazed-stoneware sewer, manholes, an ejector

station, 150yd. of 4in. asbestos-cement rising main and sewage disposal works comprising a septic tank and filter at Homersfield, near Harleston. Documents from the offices of A. P. Cotterell and Son, engineers, 54 Victoria Street, Westminster, London, S.W.1. Deposit £3 3s. Plans also seen at the Council Offices, 1 Saltgate, Beccles. Tenders by Sept. 5.

***Wandsworth.**—Reconstruction of sewers for B.C. Deposit £2 2s. Tenders by Aug. 31.

***Wycombe, Bucks.**—Extension to Princes Risborough sewage disposal works for R.D.C. Apply by Aug. 9. Deposit £10.

STREET LIGHTING

Castlederg, Tyrone.—Supply and erection of 79 fluorescent lanterns and other ancillary works for R.D.C. Documents from the Council Offices, Castlederg. Deposit £5 5s. Tenders by Aug. 22.

Dufftown, Banffs.—Supply and erection of lanterns and equipment to be used in connection with street lighting improvements for B.C. Documents from Wm. C. Connon, town clerk, Dufftown. Tenders by Aug. 9.

Sittingbourne and Milton, Kent.—Supply and erection, supply only or erection only of fittings supplied by another contractor of approx. 112 group B and eight group A lamps in various streets for U.D.C. The columns are to be precast concrete and the lanterns are to be 80-W and 250-W mercury vapour. Documents from the Engineer and Surveyor, Lydbrook, 89 London Road, Sittingbourne. Deposit £2 2s. Tenders by Aug. 18.

Warrington, Lancs.—Installation of class B street lighting—A.374 Warrington Road, Risley, between the Noggin Inn and Warrington Rural District Boundary at Newchurch—48 standards for R.D.C. Documents from S. C. Oxley, engineer and surveyor, Council Offices, Museum Street, Warrington. Tenders by Sept. 1.

Watford, Herts.—Supply and erection of 93 sodium lanterns on concrete columns on the North Orbital Road (A.405), for B.C. Applications to F. C. Sage, borough engineer and surveyor, Town Hall, Watford, by 2 p.m., Aug 8. Deposit £2 2s.

Wilton, Wilts.—Installation of public street lighting on the Bulbridge Private Development estate for B.C. Documents from the Borough Surveyor at the Municipal Offices, Wilton. Tenders by Aug. 31.

AWARDS

BUILDING AND DECORATING
(See also Housing Schemes)

Alton, Hants. — Erection of nurses' training school at Lord Mayor Treloar Hospital, for the Wessex Regional Hospital Board: Main contract—D. J. Kemp and Sons (Alton), Ltd., 87 High Street, Alton, £8,034; prefabricated building—V. Hallam, Ltd., Langley Mill, Nottingham, £2,048 (recommended).

Birmingham. — Following for the Regional Hospital Board: Modernisation of ward D.2 at Dudley Road Hospital and ward E, Burns unit at the Accident Hospital—W. H. Roberts, Ltd., 49 Hutton Road, Birmingham, 20, £8,900 and £5,125, respectively; alterations to A ward and adaptations to Taplow and Dixon wards at Yardley Green Hospital—Ten Acres and Stirchley Co-operative Society, Ltd., Umberslade Road, Birmingham, 30, £1,568, and C. Twigg (Builders), Ltd., 12 Theodore Street Birmingham, 19, £7,820, respectively; interior decorations at the blood transfusion service headquarters—F. Deeley, Ltd., 210 High Street, Harborne, Birmingham, £1,040; interior and exterior painting at All Saints' and Glenthorne Hospitals—Whiteman Decorations, Ltd., 179 Gravelly Lane, Erdington, Birmingham, 23, £2,646; replacement of windows in wards E and female 9 at All Saints' Hospital—W. Sapcote and Sons, Ltd., 87 Camden Street, Birmingham, 1, £1,539; interior decorations to wards A3, A8 and C7, and exterior decorations to night block and D block at Dudley Road Hospital—Sargent Bros. (Builders and Decorators), Ltd., 23 Gerrard Street, Birmingham, 19, £1,216, and W. Sapcote and Sons, Ltd., £1,035, respectively; interior decorations at Solihull Lordswood Maternity and Little Bromwich General Hospitals — C. Bryant and Son, Ltd., 65 Whitmore Road, Birmingham, 10, £5,983, A. Seers and Sons, Ltd., 164 Broad Street, Birmingham, 15, £3,352, and Whiteman Decorations, Ltd., £6,288, respectively (recommended).

Bolton, Lancs.—Erection of a public house in New Lane for Magee Marshall and Co., Ltd. E. R. Duckworth and Partners, quantity surveyors, 21 Mawdsley Street, Bolton—George and Beddows, Ltd., Valletts Lane, Bolton. Site excavation commenced.

Bournemouth, Hants.—Construction of pharmacy at Royal Victoria Hospital, Boscombe, for the Wessex Regional Hospital Board—Jenkins and Sons (Winton), Ltd., 119 Alma Road, Winton, Bournemouth, £10,767 (recommended).

Brentford and Chiswick, Middx. — Erection of servery at St. John's R.C. School, for C.C.: R. Ball and Co., Ltd., 19 Balfern Grove, London, W.4, £1,763 (recommended).

Bridgwater, Som.—Three shops with six flats over at West Street, for B.C.—Harris Bros. and Collard, Mansion House Lane, Bridgwater, £19,443.

Bromsgrove, Worcs.—Flooring wards at Lea Hospital, for the Birmingham Regional Hospital Board—Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad House, Coventry Street, Birmingham, 5, £1,089 (recommended).

Clacton, Essex. — Extensions at St. Osyth Training College for Co. E.C.—Joseph Moss and Sons, Ltd., St. Helens Road, Colchester, £242,166.

Coventry.—Reconstruction of ground floor of south wing at Coventry and Warwickshire Hospital, for the Birmingham Regional Hospital Board—Whiteman and Son, Ltd., 73-87 Foleshill Road, Coventry, £25,474 (recommended).

Dartford, Kent.—Remodelling of the pumping station, road works and demolition of the existing buildings at Darenth pumping station, for M.W.B.—Greenaway and Son, Ltd., 265 Lordship Lane, London, S.E.22, £11,650.

Dorchester. — Reinstatement of male south and west wards and improvements to staff houses at Herrison Hospital, for the Wessex Regional Hospital Board—A. H. Angell, Ltd., Princes Street, Dorchester, £32,627; and E. Neath, 38 Sutton Road, Preston, Weymouth, £811, respectively (recommended).

Dovercourt, Essex.—Extensions to factory area, first floor office block and canteen block and ancillary works at Valley Road for Tickopres, Ltd., 7-8 Old Bailey, London, E.C.4. Main contractor—Hutton (Builders), Ltd., Birch, Colchester, Essex, estimated cost £46,000. Sub-contractors: Structural engineering — Finch Engineering, Ltd., Barkingside, Essex; heating—The Lindsey Heating Co., Ltd., Frinton-on-Sea, Essex; reinforced concrete — Rok-Crete Units Co., Ltd., Clacton-on-Sea, Essex; windows — Henry Hope and Sons, Ltd., Smethwick, Birmingham. Sparrow and Clater, architects, 52 North Hill, Colchester, and E. Dudley Smith and Partners, quantity surveyors, 45 North Hill, Colchester. Work to commence Aug. 8.

Epsom, Surrey.—Improvements to sanitary annexes at Horton Hospital, for South West Metropolitan Regional Hospital Board—C. H. Runnalls and Sons, Ltd., 11a Grove Road, Sutton, £14,463 (recommended).

Essex. — Erection of an assembly hall and kitchen at Purleigh County Primary School for C.C. H. Conolly, architect—Bishop and Harding, Normandy Avenue, Burnham-on-Crouch, £13,090. Work has commenced.

Fareham, Hants. — Construction of new entrance shelter and toilet at Knowle Hospital, for the Wessex Regional Hospital Board—Jno. Croad, Ltd., Portland Street, Portsmouth, £6,531 (recommended).

Finchley.—Erection of a seven-storey office block, with canteen building and external roads, at Squires Lane, London, N.3, for the Southern Project Group of the Central Electricity Generating Board—Higgs and Hill, Ltd., Crown Works, South Lambeth Road, London, S.W.8. Estimated cost £195,000. Farmer and Dark, architects, Romney House, Tufton Street, S.W.1; E. C. Harris and Partners, quantity surveyors, Lynton House, Tavistock Square, W.C.1.

Glossop, Derbys. — Complete reorganisation and modernisation of the existing baths, including structural alterations, removal of existing cubicles, erection of a new spectators' gallery, construction of new cubicles, drainage and services and general repairs and decoration for B.C. E. C. Allen, borough surveyor—J. J. Oakes and Sons, Ltd., 144 Dialstone Lane, Stockport, £24,999.

Hendon, Middx. — Underpinning and stabilising of foundations of the Broadfields Junior School for C.C.—Pynfold, Ltd., 74 Lancaster Road, London, N.4, £2,933; reinstatement works—Direct Labour. Estimated cost, £5,100 (both recommended).

Hereford.—Alterations to maternity accommodation at Victoria Hospital, for the Birmingham Regional Hospital Board—L. Dainty, Ltd., Leighswood Grove, Aldridge, £26,515 (recommended).

Heston and Isleworth, Middx.—Interior and exterior redecoration at Maria Grey Training College for C.C.—T. H. Kenyon and Sons, Ltd., Chancellors Works, Croxley Road, London, W.9, £2,194 (recommended).

Inverness.—Erection of a store and offices at Burnett Road for James Grant and Co. (East), Ltd., 11 Melville Crescent, Edinburgh, 3. W. A. Bruce Robertson, architect, 8 St. Colme Street, Edinburgh, 3—Caledonian Builders, Ltd., Citadel, Inverness, and Redpath Brown and Co., Ltd., 3 Duncannon Street, London, W.C.2. Estimated cost £12,000.

Islington. — Erection of casualty, out-patient and X-ray departments, etc., at the Royal Northern Hospital, Holloway Road, London, N.7, for North West Metropolitan Regional Hospital Board. Tooley and Foster, architects, Midland Bank Chambers, Buckhurst Hill, Essex—Patman and Fotheringham, Ltd., 15 Islington Park Street, London, N.1, £417,611.

Lambeth. — Provision of kitchens at Lambeth Hospital, for South West Metropolitan Regional Hospital Board — James Carmichael (Contractors), Ltd., 331 Trinity Road, London, S.W.18, £114,989 (recommended).

Leeds.—Erection of Church of the Ascension, Ironwood View, Seacroft—R. M. Thompson, Ltd., Circle House, Lady Lane, Leeds, 2, £24,516. Charlton and Crowther, architects, Gordon Chambers, 21 Bond Street, Leeds, 1, and Miller and Thomas, quantity surveyors, 13 Queens Square, Leeds, 2.

Leeds.—Following for City Council: Erection of shopping centre at Lincoln Green—West and Sons (Leeds), Ltd., 15 Wesley Road, Leeds, 12, £118,688 (recommended, subject to Ministry approval).

Erection of six brick-built garages at Boggart Hill Drive—George Monkman and Son, Ltd., Nowell Lane, Leeds, 9, £1,595; erection of 61 concrete garages at Kentmere Avenue, Burton Road, Monkswood Green and Houghley Street—Portable Concrete Buildings, Ltd., Ironstone Works, Adderbury, Banbury, Oxon, £6,860 (recommended, subject to Ministry approval).

Erection of Hillside aged persons' hostel at Intake, Stanningley—West and Sons (Leeds), Ltd., £71,000.

Liverpool.—Following for City Council: Erection of Palm House at Harthill estate—W. Richardson and Co., Ltd., Darlington, £5,590; erection of garage and various additions to the Allerton Fire Station—Hughes and Stirling, Ltd., 4 Brasenose Road, Bootle, 20, £9,285 (both recommended).

Liverpool.—Rebuilding of the Shaftesbury Hotel, Mount Pleasant, for David E. Williams (Lord Nelson Hotel, Ltd.). G. W. Dishman, architect, 14 Castle Street, Liverpool, 2—Anderson Molyneux, Ltd., 3 Sir Thomas Street, Liverpool.

Llandeilo, Carms.—Erection of garages at the following housing estates for R.D.C. Norman E. Evans, engineer: Eight at Glanygors, Penygroes, and four at Park Avenue, Capel Hendre—Reg Evans, 225 Ammanford Road, Llandybie, £753 and £387, respectively; 20 at Woodfield Road, Llandybie, and six at Rhydyfro, Llangadog—Direct Labour, £1,820 and £588, respectively. Work to commence Sept. 1.

Lowestoft, Suffolk.—Modernise and enlarge the existing public conveniences at Royal Plain, for B.C.—R. G. Carter, Ltd., Hobland Hall, Bradwell, Great Yarmouth, £13,586 (recommended, subject to Ministry approval).

Manchester.—Following for City Council: Adaptation works at police buildings, Longsight—Direct Labour; erection of an airfield lighting control building (B centre) at Manchester Airport—F. Marsland, 7 Bullock Street, Stockport; structural frame for Harpurhey Technical High School for Girls—Gardiner Sons and Co., Ltd., Broad Plain, Bristol, 2; alterations to school meals kitchen at Crumpsall Open Air School—Direct Labour; adaptation work to provide training facilities at Central Fire Station—Arthur Wardle (Builders), Ltd., 42 Hardman Street, Manchester, 3 (all recommended).

Manchester.—Provision of psychiatric clinic at Crumpsall Hospital, for Manchester Regional Hospital Board—William Fearnley, Ltd., Constance Works, Salford, 5, £17,063 (recommended).

Middlesex.—Roof covering at Glebe Primary School, for C.C — Weatherall Roofing Co., 3 Whitehall Place, Gravesend, Kent, £2,547 (recommended).

Northleach, Glos.—Erection of a building in Cotswold Stone with a stone tiled roof to contain a ladies' and gentlemen's toilet and a bus shelter, at the Market Place, for R.D.C.—W. H. Cook, Anfield House, Northleach, £2,217 (accepted); C. Pether and Sons, £2,309; M. J. Partridge, £2,356; Mustoe and Sons, £2,980.

Norwich.—Construction of new sluice room for villas M.6 and F.5 at Little Plumstead Hospital, for the East Anglian Regional

Hospital Board—Direct Labour (recommended). Estimated cost £2,400.

Portsmouth. — Construction of hospital shop corridors, pharmacy and chemical store at St. James Hospital, for the Wessex Regional Hospital Board—R. J. Winnicott, Ltd., Copnor Road, Portsmouth, £13,434 (recommended).

Ross-on-Wye, Heres.—Adaptations to MD accommodation at Alton Street Hospital, for the Birmingham Regional Hospital Board—Selleck Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Corn., £10,989 (recommended).

Salford, Lancs.—Improvements to property at 12a and 13a School Street, 13a Lowcock Street, 2 Gordon Street, 31/39, 41, 43 and 49 Alexandra Street, for City Council—Direct Labour, £3,508 (recommended, subject to Ministry approval).

Salisbury, Wilts.—Erection of senior nurses' training school at Salisbury General Hospital, for the Wessex Regional Hospital Board—John Pritchard, £20,330 (recommended).

Shrewsbury, Salop.—Builders' work associated with provision of food trolley/passenger lift to male wards at Shelton Hospital, for the Birmingham Regional Hospital Board—H. J. Emery, Ltd., £1,010 (recommended).

Smethwick, Staffs.—Following for B.C.: Conversion of outbuildings into bathrooms in 24 houses at Rosefield Road—Gill and Dearn, Ltd., 80 Hagley Road West, Birmingham, 27, £6,960 (recommended).

Preparation of the design for and the supply of structural steelwork in the dwellings to be erected at Price Street shopping centre, Kingsway East redevelopment site 3—G. K. N. Reinforcements, Ltd., Alma Street, Smethwick (recommended).

Southall, Middx.—Roof covering at George Tomlinson Primary School, for C.C.—Weatherall Roofing Co., 3 Whitehall Place, Gravesend, Kent, £2,996 (recommended).

Stoke-on-Trent, Staffs.—Alterations to existing ward block at Groundslow Hospital, for the Birmingham Regional Hospital Board—H. Poole, Ltd., Newcastle Road, Newcastle-under-Lyme, £22,274 (recommended).

Surbiton, Surrey. — Adaptation of air-raid shelter, Hook Rise, as classroom for B.C.—Mitchells Surbiton, Ltd., Churchill Road, Surbiton, £1,630 (recommended, subject to C.C. approval).

Tottenham, Middx. — Interior redecoration of the Stamford Hill Junior Mixed and Risley Avenue Secondary Girls' School, and renewal of all roof tiling at Woodlands Park Junior Boys' School for C.C.—Direct Labour (recommended). Estimated cost £3,150, £2,730 and £3,100, respectively.

Towcester, Northants.—Modernisation of four bungalows at Church Way, Whittlebury, contract 16, for R.D.C. G. Berridge, surveyor.—K. R. Barnes, Northampton, £929 (accepted); H. H. Woolnough and Son, Ltd., £959; Wm. Lepper and Sons, £1,006; Kelly Bros., £1,060; J. A. Bennett and Sons, £1,068.

Worcester. — Following for the Birmingham Regional Hospital Board: Additional accommodation in resident medical staff quarters at Worcester Royal Infirmary—W. Weaver, Ltd., 22 Birmingham Road, Bromsgrove, £7,054; provision of bathrooms to staff houses 1, 2, 7 and 8 at Powick Hospital, and redecoration of three wards and main kitchen at Ronkswood Hospital—T. Oliver (Builder), Ltd., 120 Ombersley Road, Worcester, £2,875 and £1,864, respectively (recommended).

Walsall, Staffs. — Conversion of stores building into ward unit at Manor Hospital, for the Birmingham Regional Hospital Board—Deacon and Boardman Ltd., Algernon Street, Walsall, £19,265 (recommended).

Warwick.—Alterations to out-patients' department at Warwick Hospital, for the Birmingham Regional Hospital Board—A. Matts and Son, Ltd., Vecqueray Street, Coventry, £37,165 (recommended).

Watford, Herts.—Erection of bank, etc., at 34 High Street for Martins Bank, Ltd., 68 Lombard Street, London, E.C.3—Charles Brightman and Son, Ltd., Ebury Road Works, Watford. Bryan and Norman Westwood and Partners, architects, 21 Suffolk Street, London, S.W.1.

Wellington, Salop.—Provision of new out-patients' department at Wrekin Hospital, for the Birmingham Regional Hospital Board—G. Linnecor and Son, Ltd., New Town Row, Aston Cross, Birmingham, 6, £49,959 (recommended).

Wimbledon, Surrey.—Construction of an X-ray department at Nelson Hospital, for South West Metropolitan Regional Hospital Board — M. Howard (Mitcham), Ltd., Wandle House, London Road, Mitcham, Surrey, £10,655 (recommended).

Winchester, Hants.—Following for the Wessex Regional Hospital Board: Construction of the orthonontic department at the Royal Hampshire County Hospital—Hampshire Contractors, Ltd., Winnall Close, Winnall, Winchester, £3,196; erection of a new office block for architects and engineers at Highcroft—Eades Bros., Ltd., Charlton, Andover, £24,886; improvements to entrance and roadway at St. Pauls Hospital—Campbell and McGill, Ltd., Easton Lane, Winnall, Winchester, £2,114 (recommended).

Wolverhampton, Staffs. — Conversion of West Lodge and Beeches Maternity Home at the Women's Hospital, and alterations to casualty and X-ray department at the Royal Hospital, for Birmingham Regional Hospital Board—K. S. Rock and Co., Ltd., Little Pountney Street, Wolverhampton, £2,095, and E. Warren Baxter and Co., Ltd., Willenhall Road, Wolverhampton, £4,087, respectively (recommended).

York.—Erection of a branch library at Fifth Avenue, for City Council. E. Firth, city architect, 8 St. Leonard's Place, York—D. Hughes and Sons, Ltd., Huntington Road, York, £12,244 (recommended).

CLOTHING AND TEXTILES

Luton, Beds. — Supply of male drivers' and conductors' uniforms for B.C.: One hundred and forty jackets, 280 pairs of trousers and 100 overcoats—Manclark and Son, Ltd., Edinburgh, £585, £648 and £418, respectively; 100 mackintoshes—C. Macintosh and Co., Ltd., London, N.18, £383.

DEMOLITION

Cowes, I. of W. — Demolition and complete removal of Victoria Pier for U.D.C.—Under Water Welders and Repairers, Ltd., Roath Basin, Cardiff, £2,990. Work commencing October.

Liverpool. — Demolition of the Nonconformist Chapel, West Derby Cemetery for City Council—G. Fletcher (Demolition), Ltd., 32 Milton Street, Liverpool, 3, £50 (recommended).

Luton, Beds.—Demolition and clearance of all buildings on the central depot site, Kingsway/Portland Road, for B.C.—Bedfordshire Dismantling and Demolition Co., Bedford, to pay Corporation, £420 (recommended).

Manchester.—Demolition of a disused warehouse at Mode Wheel Cattle Market, for City Council—Connell and Finnigan, Ltd., 44 Molyneaux Street, Manchester, 13 (recommended).

ELECTRICAL

Alton, Hants.—Electrical services for the nurse training school at the Lord Mayor Treloar Hospital for the Wessex Regional Hospital Board—R. F. Webb, Ltd., 5 Rockstone Place, Southampton, £620 (recommended).

Basingstoke, Hants. — Installation of lift at Rooksdown House, Park Prewett Hospital for the Wessex Regional Hospital Board—Evans Lifts, Ltd., 66 Victoria Street, London, S.W.1, £2,145 (recommended).

Birmingham. — Electrical services for the modernisation of ward E at the Accident Hospital, for the Regional Hospital Board—H. Pratt, Ltd., Potters Lane, Aston Cross, Birmingham, 6, £1,635 (recommended).

Coventry.—Electrical services for cobalt therapy unit at the Coventry and Warwickshire Hospital, for the Birmingham Regional Hospital Board—G. R. Marson, Ltd., 110-6 Queen Victoria Road, Coventry, £1,717 (recommended).

Hereford. — Electrical services for alterations to maternity accommodation at Victoria Hospital, for the Birmingham Regional Hospital Board—Parker, Winder and Achurch, Ltd., 251 Broad Street, Birmingham, 1, £2,713 (recommended).

Luton, Beds. — Supply and installation of traffic control signals in Eaton Green Road at junction with Harrowden Road for B.C.—Automatic Telephone and Electric Co., Ltd., Strowger House, 8 Arundel Street, London, W.C.2, £1,104 (recommended, subject to Ministry approval).

Manchester.—Following for City Council: Electrical installations at Arnfield Treatment Works Control and Administration Building—East Manchester Contractors, Ltd., 6 Gorton Road, Manchester, 12; electrical installation work for shops, maisonnettes and garages being erected at Lomond Road, Peel Hall—Simmons Electrical Contracting Co., 479 Middleton Road, Chadderton, Oldham, Lancs. conversion and modification works to two lifts in the Town Hall extension—Otis Elevator Co., Ltd., 16 Deansgate, Manchester, 3 (all recommended).

Newport, I. of W.—Installation of lift in N block of St. Mary's Hospital for the Wessex Regional Hospital Board—Pickerings, Ltd., 12 St. Cross Street, London, E.C.1, £3,764 (recommended).

Oldham.—Provision of second bed lift in the Elizabeth Martland unit at Oldham and District General Hospital for Manchester Regional Hospital Board — Whitworth, Whitaker and Co., Ltd., Rochdale Road, Oldham, £4,156 (recommended).

Portsmouth.—Electrical services for the hospital shop corridors, pharmacy and chemical store at St. James Hospital for the Wessex Regional Hospital Board—G. Taylor and Co. (London), Ltd., Gloucester Road, Portsmouth, £1,699 (recommended).

Salisbury, Wilts.—Electrical services for the senior nurses' training school at Salisbury General Hospital for the Wessex Regional Hospital Board—E. W. Forster, £713 (recommended).

Shrewsbury, Salop.—Phase II of electrical rewiring at Shelton Hospital, for the Birmingham Regional Hospital Board—T. Wood and Sons (Chester), Ltd., 38 Bridge Street, Chester, £2,200 (recommended)

Stoke-on-Trent, Staffs.—Electrical services in connection with alterations to existing ward at Groundslow Hospital, for the Birmingham Regional Hospital Board—H. Palfreyman, Ltd., 8 Northwood Park Road, Hanley, Stoke-on-Trent, £3,110 (recommended).

Warwick.—Electrical services for improved out-patients' accommodation at Warwick Hospital, for the Birmingham Regional Hospital Board—Thompson Electrical Co., Ltd., 3 Manor Road, Kenilworth, £2,427 (recommended).

Winchester, Hants.—Installation of bed passenger lift at the Royal Hampshire County Hospital and electrical services for new office block at Highcroft for the Wessex Regional Hospital Board — Otis Elevator Co., Ltd., Havelock Chambers, Queens Terrace, Southampton, £5,071, and Dicks, Ltd., 149 High Street Winchester, £1,904, respectively (recommended).

Woodbridge, Suffolk.—Supply and installation of lift for male wards 7, 8 and 9 at St. Audry's Hospital, Melton, for the East Anglian Regional Hospital Board—Evans Lifts, Ltd., Leicester, £2,330 (recommended).

GAS AND WATER SUPPLY

Ashton-under-Lyne, Lancs. — Construction of the Dovestone reservoir, near Ashton, for the Ashton-under-Lyne, Stalybridge and Dukinfield District Water Board. G. H. Hill and Sons, consulting engineers, 51 Moseley Street, Manchester.—A. E. Farr, Ltd., Westbury, Wilts. Estimated cost £1¾m.

Birmingham. — Filtration and chlorination equipment for new baths at Stechford, for City Council.—United Filter Co., Ltd., 4 Burston Road, London, S.W.15.

Blackpool, Lancs.—Supply of the following for th 30in. main Whitewell to Blackburn for the Fylde Water Board: Approximately 1,100 lin. yd. of 30in. diameter steel pipes; approximately 150 lin. yd. of smaller diameter steel pipes; sundry steel bends and other specials. Frank Law, engineer—South Durham Steel and Iron Co., Ltd., Stockton-on-Tees.

Haverhill, Suffolk.—Construction of a reinforced concrete water tower of 150,000-gallon capacity, together with pipework and other incidental work, for U.D.C. Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, Westminster, London, S.W.1 — Vibrated Concrete Construction Co., Ltd., 27 Ashley Place, London S.W.1, £19,051. Work commencing September.

Leeds.—Supply of straight and special pipes for City Council—Cochranes (Middlesbro') Foundry, Ltd., Stanton Ironworks Co., Ltd., and Staveley Iron and Chemical Co., Ltd., respectively (recommended). Estimated cost £29,683.

Manchester.—Reconditioning of water mains, for City Council—Tate Pipe Lining Processes, Ltd., 39 Victoria Street, Westminster, London, S.W.1 (recommended).

Narberth, Pembs.—Water supply extension, Quart Park to Dugges Park, Martletwy, for R.D.C., comprising excavating and refilling trenches in fields and roads, supplying, laying and jointing 2,100yd. of 3in. diameter asbestos-cement pressure pipes with joints complete, together with all necessary valves, meters and pressure-reducing valves, with other contingent works—Jones and Gravell, Kidwelly, Carms., £2,848 (accepted); A. J. Daye, £1,983; D. C. Evans and Co., £2,942; General Contractors, Ltd., £2,989; Young Bros. and Lewis, £3,050; H. F. McEntee, Ltd., £3,288; Gibson and King, Ltd., £3,396; Hussey, Egan and Pickmere, Ltd., £4,224.

Northamptonshire. — Laying of approximately 2,300 lin. yd. of 6in. diameter, 6,560 lin. yd. of 4in. diameter and 1,800 lin. yd. of 3in. diameter asbestos-cement pipes and ancillary works in the villages of Yelvetoft, Lilbourne and Claycoton, contract 449 for Mid-Northamptonshire Water Board. Leonard H. Brown, engineer and manager:

Crawshaw Robbins and Co., Ltd., Scaldwell, Northampton. Work commencing August.

Salisbury and Wilton, Wilts. — Regional water supply, stage 2B, for R.D.C., comprising the laying of approximately 1,600yd. of 6in. diameter spun-iron main, and modifications to an existing reservoir at Whiteparish, near Salisbury. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton—G. J. Furneaux, Ltd., 251 Barrack Road, Christchurch, £5,124.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Dundee.—Construction of transit shed and offices at the Queen Elizabeth Wharf, for the Harbour Trustees—J. B. Hay and Co., Ltd., Guthrie Street, Dundee.

HEATING AND VENTILATING

Alton, Hants. — Mechanical engineering services for the nurse training school at the Lord Mayor Treloar Hospital for the Wessex Regional Hospital Board—B.C.H. Heating Co., £1,457 (recommended).

Belfast. — Installation of a hot water system in 96 houses in the Roseberry Road area, for City Council—John Scott, 25 Barnetts Road, Belfast, 5, £12,764.

Birmingham. — Following for the Regional Hospital Board: Mechanical engineering services for modernisation of ward E at the Accident Hospital—G. N. Haden and Sons, Ltd., 24 St. Pauls Square, Birmingham 3, £770; renewal of hot water service mains at Selly Oak Hospital—Clarke and Wills, Ltd., 46 Cob Lane, Birmingham, 30, £4,183 (recommended).

Coventry.—Mechanical engineering services for cobalt therapy unit at Coventry and Warwickshire Hospital for the Birmingham Regional Hospital Board—Daly and Son, 6 Stoney Stanton Road, Coventry, £1,100 (recommended).

Dorchester. — Engineering services for the reinstatement of male south and west wards at Herrison Hospital for the Wessex Regional Hospital Board — Wippell and Rowe, £6,038 (recommended).

Dudley, Worcs. — Boiler house reorganisation at Burton Road Hospital for the Birmingham Regional Hospital Board — Daniel Adamson and Co., Ltd., 2 Norfolk Street, London, W.C.2, £16,440 (recommended).

Lichfield, Staffs.—Mechanical services in connection with the modernisation of heating installation in ward block A at St. Michael's Hospital for the Birmingham Regional Hospital Board —.E. Toon, Ltd. Bath House, Mountrath Street, Walsall, £7,480 (recommended).

Manchester. — Installation of oil-fired equipment on boiler plant at Manchester and Salford Hospital for Skin Diseases for Regional Hospital Board—Saunders and Taylor and Co., Ltd., 97 Chapel Street, Salford, £3,225 (recommended).

Manchester.—Following for City Council: Heating installation and boiler plant and hot and cold water and gas installations at Whalley Range Grammar School for Girls—Emmett and Smith, 7a Whitworth Street West, Manchester, 1; heating installations at Templemead and Newall View — Robert Wood (Bacup), Ltd., Lee Mill, Bacup (both recommended).

Orpington, Kent. — Installation of a gas-fired warm air central heating system at the Civic Offices, The Walnuts, High Street, for U.D.C. F. J. Whyte, consulting engineers, 27 Knightrider Street, London, E.C.4—Smokeless Heating Systems, 16a Masons Hill, Bromley, Kent, £5,256. Work commencing shortly.

Portsmouth. — Engineering services for the hospital shop corridors, pharmacy and chemical store at St. James Hospital for the Wessex Regional Hospital Board—Mumford Bailey and Preston, Ltd., 159 Elm Grove, Southsea, Portsmouth, £708 (recommended).

Ross-on-Wye, Heres. — Extension of central heating and hot water services to staff quarters, etc., at Alton Street Hospital for the Birmingham Regional Hospital Board — Truswell and Son, Ltd., £7,397 (recommended).

Salford, Lancs.—Removal of existing heating and water system in children's department offices and installation of a complete central heating and hot water supply system with oil-fired boilers, storage and equipment for City Council—Direct Labour, £1,444 (recommended).

Shrewsbury, Salop.—Provision and installation of automatic stokers at Cross House Hospital, for Birmingham Regional Hospital Board — Mirrlees Watson and Co., Ltd., The Pink House, Bilbrook Road, Codsall, Wolverhampton, £1,230 (recommended).

Stoke-on-Trent, Staffs.—Mechanical engineering services in connection with alterations to existing ward at Groundslow Hospital for the Birmingham Regional Hospital Board—Truswell and Son, Ltd., Vessey Terrace, Newcastle - under - Lyme, £6,919 (recommended).

Stourbridge, Worcs.—Settings for three Lancashire boilers, one additional boiler and off-loading and testing, and economiser and settings, I.D. fan, mechanical stokers and chequer plates for new main boilerhouse at Corbett Hospital for the Birmingham Regional Hospital Board — Foster, Yates and Thom, Ltd., Terminal House, Grosvenor Gardens, London, S.W.1, £16,628 (recommended).

Warwick. — Mechanical engineering services for improved out-patients' accommodation at Warwick Hospital for the Birmingham Regional Hospital Board—Daly and Son, 6 Stoney Stanton Road, Coventry, £4,635 (recommended).

Winchester, Hants. — Mechanical heating services for new office block at Highcroft for the Wessex Regional Hospital Board—Lankester and Son, Ltd., Holyrood Works, Southampton, £1,474 (recommended).

Wolverhampton, Staffs.—Mechanical engineering services at West Lodge and Beeches Maternity Home, Women's Hospital for the Birmingham Regional Hospital Board—A. L. Hughes (Heating Engineers), Ltd., 75 North Street, Wolverhampton, £2,382 (recommended).

Worcester.—Following for the Birmingham Regional Hospital Board: Mechanical services for accommodation to resident medical staff quarters at Walnut Tree House, Worcester Royal Infirmary—James Ward (Worcester), Ltd., Broad Street, Worcester, £1,153; provision and installation of automatic stokers at Ronkswood Hospital — James Hodgkinson (Salford), Ltd., Ford Lane Works, Salford, £2,416 (recommended).

HOUSING SCHEMES

Birkenhead, Ches.—Following for B.C.: (a) 246 dwellings and (b) 159 dwellings and 80 garages at Woodchurch estate—(a) George Wimpey and Co., Ltd., Netherfield Road, Liverpool, 5, £509,600, and (b) Thomas Warrington and Sons, Ltd., 82 Station Road, Ellesmere Port, Wirral, £286,750; 110 houses at Prenton Dell estate —Sir Robert Lloyd and Co., Ltd., Port Causeway, Bromborough, £186,808 (recommended).

Ellesmere Port, Ches. — Six flats at Church Street/Queen Street, contract 260 for B.C. Cecil W. Davis, borough engineer and surveyor—Cartwright Bros. (Little Sutton), Ltd., Little Sutton, Wirral, Ches., £11,777 (accepted); Thos. Warrington and Sons, Ltd., £11,997; The Mill Building Co., £12,580. Work about to commence.

Hyde, Ches.—Sixty-five houses and bungalows at Wych Fold Estate, Gee Gross (first stage), for B.C.—George Wimpey and Co., Ltd., Liverpool, 5.

Kensington.—Erection of three flats on land at the Campden Hill reservoir, for M.W.B—Robert Hart and Sons, Ltd., 121 Victoria Street, London, S.W.1, £14,650.

Leicester.—Ninety bungalows and 32 cottage flats at Nether Hall estate, and 60 one-bedroom flats at Evington House estate, for City Council.—Sherriff and Co. (1943), Ltd., Barkby Road, Leicester, £138,199 and £84,486, respectively (recommended).

Liverpool.—Following for City Council: Fifty-four dwellings, eight shops and 12 garages at Furlong Street — Peak Construction (Liverpool), Ltd., 95 Broad Lane, Liverpool, 11, £132,969; 18 flats and one garage, St. James Street/Duncan Street, and four houses Chapman Street/Upper Main Street —R. J. Barton and Sons, Ltd., Altcar Road, Formby, £28,528 and £11,090, respectively; three flats at Green Lake Road—J. J. Gallagher and Co., Ltd., Birchfield Avenue, Widnes, £5,721 (recommended, subject to Ministry approval).

Sixty-four dwellings and 26 garages at Higher Lane, Long Lane and Lower Lane—Direct Labour (recommended, subject to Ministry approval). Estimated cost £109,985.

Llandeilo, Carms.—(a) Six houses and flats at Rhydyfro, Llangadog, and (b) four flats at Glanygors, Penygroes for R.D.C. Norman E. Evans, engineer—(a) Western Plasterers, Ltd., Snowdrop Lane, Haverfordwest, Pembs., £17,604, and (b) Reg Evans, 225 Ammanford Road, Llandybie, £5,835. Work to commence Sept. 1.

Manchester.—Following for City Council: One hundred and forty-two dwellings and two communal laundries at Harpurhey redevelopment area—Cubar Construction Co., Ltd., 1 Clarence Street, Manchester, 2, estimated cost £330,307; 240 dwellings at Rose Hill, Marple—Henry Boot and Sons (Manchester), Ltd., Atlantic Street, Broadheath, Altrincham, estimated cost £393,328; 351 dwellings at Councillor Lane, Cheadle, and 179 dwellings and two communal laundries at Bradford Road redevelopment area and 28 dwellings at Mill Street, Ancoats, redevelopment area—Direct Labour, estimated cost £552,249 and £412,668, respectively; design and construction of the reinforced concrete framework and foundations for two nine-storey blocks, each comprising 73 dwellings, at Glebelands Road, Baguley Hall and at Ossington Walk, Northern Moor—Holst and Co., Ltd., 3 Wynnstay Grove, Manchester, 14. Estimated cost £141,384 and £145,482, respectively (all recommended, subject to Ministry approval).

Mansfield, Notts. — Ten traditional dwellings at Ladybrook housing estate, for B.C.—Direct Labour, £16,304 (recommended).

Middlesbrough, Yorks.—Thirty-seven dwellings and nine garages, comprising group 27 at Easterside, for B.C.—Moore and Cartwright, 44 High Street, Norton-on-Tees, £60,197 (recommended, subject to Ministry approval).

Oxford.—Two 15-storey blocks of flats (60 in each block) at Blackbird Leys estate, for City Council—John Laing and Son, Ltd., Mill Hill, London, N.W.7, £257,000 (recommended).

Penge, Kent.—Twenty dwellings comprising 16 flats in block form and four terrace houses for U.D.C.—W. J. Eaglen, Ltd., 6/8 Dorset Road, Mottingham, S.E.9, £37,213 (accepted); S. G. and A. Agombar, Ltd., £37,336; Ridgeway Contractors, Ltd., £37,780; T. Ringham and Co., Ltd., £38,603; F. Bilton (London), Ltd., £39,492; F. J. Moreton and Sons, Ltd., £40,017; Syme and Duncan, Ltd., £41,715. Work about to commence.

Plymouth, Devon. — Following for City Council: Forty-four houses at Clittaford Road and Inchkeith Road—Direct Labour, £67,783; copper tube and fittings for Ordnance Street flats, Devonport—Burn Bros. (London), Ltd., Bath, £1,194 (recommended).

Tipton, Staffs.—Fifty-two dwellings and eight garages at Aston Street housing site, and 48 flats and 24 garages at St. John's Road housing site, for B.C.—T.G. Construction, Ltd., Ettingshall, Wolverhampton, £106,338, and Direct Labour, £74,948, respectively (recommended, subject to Ministry approval).

Tynemouth, Northumb. — One hundred and fifty-five houses on the Chirton Grange estate, for B.C. D. M. O'herlihy, borough engineer.—William Leech, Ltd., St. James Street, Newcastle upon Tyne, £233,629.

West Bromwich, Staffs.—One hundred and eight flats, in nine-storey blocks, 35 garages, electrical sub-station and tenants' stores, at Charlemont Farm estate, for B.C.—Wates, Ltd., 1258 London Road, London, S.W.16, £226,712 (recommended).

Worksop, Notts.—Fourteen houses (for sale) for B.C.—H. and W. E. Ilett, Ltd., Dock Road, Worksop, £19,016.

York.—Following for City Council: (a) 50 dwellings at Fossway, York; (b) two-storey warehouse at Albion Wharf, Skeldergate, York. E. Firth, city architect, 8 St. Leonard's Place, York—(a) Bradley and Co., Huntington, York, £61,616; (b) York Co-operative Society, Ltd., Hull Road, York, £15,236.

MATERIALS AND SUPPLIES

Plymouth, Devon.—Supply of concrete pipes and concrete manholes and gully pots for Ponisland drainage scheme and Glenholt and Holtwood private street works for City Council—Sharpe, Jones and Co., Ltd., Parkstone, Poole, Dorset, £922, and Teign Valley Concrete Co., Ltd., Trusham, Chudleigh, £1,389, respectively (recommended).

Salford, Lancs.—Supply of 7,100 tons of asphalt for City Council — Neuchatel Asphalte (Contracting), Ltd., Salford, £22,766 (recommended).

PLANT AND MECHANICAL TRANSPORT

Hale, Ches.—Supply of (i) a Karrier Highways tipper lorry; and (ii) a pick-up vehicle (15cwt.) for U.D.C.—Rootes, Ltd., Olympia, Knott Mill, Manchester, 15.

Liverpool.—Supply of following for City Council: A Morris 5-ton forward control wagon, fitted with a B.M.C. diesel engine—W. Watson and Co. (Liverpool), Ltd., Bold Street, Liverpool, 1, £1,221; 3½-ton Mark LBT diesel locomotive, with a three-speed gearbox, driver's cab and chain guards—Ruston and Hornsby, Ltd., Lincoln, £1,406; one Austin 1½-ton LDO5 diesel van—Meadows Automobiles, Ltd., 159-167 Prescot Road, Liverpool, 7, £799; control unit—Dennis Bros., Ltd., Guildford, Surrey, £2,580 (all recommended).

Luton, Beds. — Supply of following for B.C.: Three Karrier Gamecock type vehicles of 18 cu. yd. capacity dual-tip refuse collect-

ing body less lifting attachment for large-capacity bins, and one Karrier Bantam type vehicle of 10-12 cu. yd. dual-tip refuse collecting body—Karrier Motors, Ltd., Luton, £6,609 and £1,731, respectively; four 15cwt. tipping salvage trailers—Low Loading Trailer Co., Ltd., Bedford, £700 (recommended).

Manchester.—Supply of following for City Council: Two air compressors—Peterborough Motors, Ltd., Peterborough; three Commer Cob vans—Rootes, Ltd., Manchester; three mobile tower ladders and chassis—Lookers, Ltd., Manchester; three cabs and elevated platforms—Rawlinson, Ltd., Blackburn; one 7-ton Ford Trader, one 2-ton Ford Trader and one 30cwt. Ford van—Brockholes Motor Co., Ltd., Huddersfield; one Artic Trader and one 5-ton Trader—G. and S. Motors (Hooton), Ltd., Hooton, Cheshire; three 10cwt. Ford vans—Manchester Garages, Ltd., Manchester (all recommended).

Mansfield, Notts.—Supply of a hydraulic excavator for B.C.—W. C. Youngman, Ltd., Wandsworth Works, Wandsworth Road, London, S.W.8, £2,535 (recommended).

Middlesbrough, Yorks.—Supply of three 5-ton Bedford S.W.B. hydraulic tipping lorries and 5-ton Bedford chassis and cab for Simon platform—Sherwood Bros., Ltd., Grange Road, Darlington, £3,401 and £937, respectively; Simon hydraulic platform—Thos. Adshead and Sons, Ltd., Queen's Cross, Dudley, Worcs., £2,323; two 2/3-ton Commer Karrier hydraulic tipping lorries—Pallister, Yare and Cobb, Ltd., 134 Marton Road, Middlesbrough, £1,832; J.C.B.4 pneumatic-wheeled hydraulic tractor digger shovel—Service Engines (Newcastle), Ltd., 11 Stockton Road, Middlesbrough, £2,509; Ingersoll-Rand DRA. 125 rotary 105/120 cu. ft. mobile air compressor—Ingersoll-Rand Co., Ltd., 165 Queen Victoria Street, London, E.C.4, £1,050 (all recommended).

Ramsgate, Kent.—Supply of the following for B.C.: Four Morris diesel Commercial 2-ton trucks fitted with Edbro tipping gear and a Bedford/Eagle vacuum gully and cesspool emptier with diesel engine—J. C. Morrison, Ltd., 19-22 High Street, St. Laurence, Ramsgate, £3,865 and £2,367, respectively; Commer ¾-ton high top van with diesel engines—The Star Garage, Broad Street, Ramsgate, £720 (recommended).

PLAYING FIELDS, PARKS, ETC.

Basingstoke, Hants.—Alteration to layout of King George V playing field, for B.C.—B. Wattridge, Seale Lane, Seale, Farnham, Surrey, £1,347 (recommended).

Mansfield, Notts.—Laying out of 22 open spaces at Ladybrook housing estate, for B.C.—Chris. Jones (Kirkby), Ltd., 135 Diamond Avenue, Kirkby-in-Ashfield, £1,400 (recommended).

Middlesex.—Following for C.C.: Laying out of playing field and garden surrounds at Thamesmead Secondary School—Kinman (Contractors), Ltd., 4 The Broadway, London, W.6, £6,335; laying out playing fields at Ryefield Primary School—F. M. Reffell, Ltd., £1,045 both recommended).

Twickenham, Middx.—Laying out of garden surrounds and constructing jump pits and practice wickets at Whitton Secondary School, for C.C.—Sherwood Bros. (Agri Service), Ltd., £622 (recommended).

Willesden, Middx.—Laying out following for C.C.: Grounds at Cardinal Hinsley R.C. Secondary Boys' School—St. Mary's (Contractors), Ltd., Sussex Way, London, N.19, £776; garden surrounds at John Kelly Secondary School—Hugh Pearl (Contractors), Ltd., £2,200 (both recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: Eastern Region:

Cleaning and painting of buildings, structures and bridges between Phillip Lane bridge 1936 and Enfield Town station on the Enfield Line, Angel Road Junction and Edmonton Junction and Bury Street Junction and Cheshunt Junction—on the Southbury Line—R. Ridd and Son (Contractors), Ltd., 153 Billet Lane, Hornchurch, Essex.

Cleaning and painting of bridges between King's Cross and Finsbury Park stations—Arundel Painting Contractors and Co., Ltd., P.O. Box 1, Louth, Lincs.

Cleaning and painting of ironwork and steelwork of bridges between Dronfield and Brightside (near Sheffield)—Arundel (Contractors), 70 Harris Street, Bradford, Yorks.

Construction of platform extensions at London Fields and Cambridge Heath stations—Shephard, Hill and Co., Ltd., 25-27 Central Chambers, Ealing Broadway, London, W.5.

Provision and driving of sheet steel piles along North Soak Drain, between Crowle and Althorpe—Lomount Construction, Ltd., Sackville House, 40 Piccadilly, London, W.1.

Provision of access hatches in roof in connection with electric lighting at Liverpool Street station—Walter Cowen, Ltd., Souldern Road, London, W.14

ROADS, BRIDGES AND SITE WORKS

Basingstoke, Hants.—Construction of roads and sewers at South Ham housing site, 34th instalment, for B.C.—Goodall, Barnard and Clayton, Ltd., Worting Road, Basingstoke, £5,173 (recommended negotiated tender, subject to Ministry approval).

Birmingham.—Following for the Regional Hospital Board: Repair and resurfacing of roads and pathways at Coleshill Hall Hospital—Asphalt and Public Works, Ltd., 36 The Tything, Worcester, £2,629; road works at Yardley Green Hospital—E. Richards, Ltd., Central Quarries, Dudley, £1,288 (recommended).

Brierley Hill, Staffs.—Repair of house footpaths on certain of the Council's pre-war housing estates, for U.D.C. J. R. Moore, architect and housing director—Mulhern and Denning, 132 Alexander Road, Acocks Green, Birmingham, 27, £1,711.

Bromsgrove, Worcs.—Garage site works on the Charford estate, for B.C.: (a) Total 700 super. yd. tarmac entrances to various sites, and (b) fencing, new work and repairs to existing boundary fences in cleft chestnut and close boarding—(a) N. W. Dunn and Co., Ltd., Church Street, Bromsgrove, £505, and (b) T. Curley, 128 Bendall Road, Kingstanding, Birmingham, £513. Work about to commence.

Cowes, I. of W.—Kerbing and resurfacing of that part of Worsley Road, Gurnard, between Solent View Road and Tuttons Hill, for U.D.C., including approx. 910 lin. yd. of concrete kerbing, 2,220 sq. yd. of tarmacadam surfacing to existing footpaths, 3,800 sq. yd. tarmacadam surfacing to carriageway, and formation of grass verges over part of existing carriageway—Cheek Bros., Ltd., 1 Church Litten, Newport, I. of W., £6,175.

Dudley, Worcs.—Road entrance improvement at Burton Road Hospital for the Birmingham Regional Hospital Board—Tarslag, Ltd., Dunstall Road, Wolverhampton, £2,194 (recommended).

Faversham, Kent.—Secondary site works at the Lower Road estate (eastern section) for B.C. A. C. E. Richardson, borough engineer—R. M. Brookes, Ltd., The Square, Lenham, Kent, £3,333 (accepted); T. H. Contractors, Ltd., £3,913; Bowzell, Ltd., £4,499.

Kidderminster, Worcs.—Following for B.C.: Construction of roads and sewers at Habberley estate, phase III—Droitwich Construction Co., Ltd., Mortehoe, Springhall Park, Wolverhampton, £36,985; major repairs to Gheluvelt Avenue—W. Weaver, Ltd., 22 Birmingham Road, Bromsgrove, £7,148 (recommended, subject to Ministry approval).

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Leamington Spa, War.—Repair and resurfacing of roads and pathways at Western Hospital for Birmingham Regional Hospital Board—J. Hadfield and Sons, Ltd., 2 Hartopp Road, Birmingham, 8, £2,544 (recommended).

Leek, Staffs.—Reconstruction of estate roads at St. Edward's Hospital, Cheddleton, for the Birmingham Regional Hospital Board—F. J. Williams and Sons (Bucknall), Ltd., Werrington Road, Bucknall, Stoke-on-Trent (recommended). Estimated cost £1,000.

Luton, Beds.—Construction of embankments, abutments and footway to proposed footbridge over railway at Roman Road for B.C.—Winton Hayes, Ltd., Biggleswade, £3,245 (recommended).

Manchester.—Following for City Council: Construction of a cul-de-sac road and associated gully connections off Millbeck Road, Langley estate—Wilson and Wilkinson, Ltd., Salford; construction of taxiway and run-up area at south-west end of main runway at Manchester Airport and preparation of remainder of the strip, comprising second stage of extension of the runway to 7,000ft., together with construction of balance of the taxi-tracks to connect with new terminal apron not included in the apron contract—John Laing and Son, Ltd., Mill Hill, London, N.W.7; private street works, Upper Park Road, Victoria Park—Wilson and Wilkinson, Ltd., Salford (all recommended).

Mansfield, Notts. — Improvement of Southwell Road, from Maltby Road to Windsor Road, for B.C.—Direct Labour, £5,750 (recommended).

Middlesex.—Construction of the northern apex taxiways and hardstandings at London Airport.—Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, London, S.E.1. Estimated cost £350,000.

Northwich, Ches.—Construction of roads and drainage works off Malpas Road for U.D.C. J. R. W. Clark, engineer—Thos. Ashley (Contractors), Ltd., Hartford, near Northwich.

Plymouth, Devon. — Levelling of site at Burrington Estate for City Council—Direct Labour (recommended, subject to Ministry approval). Estimated cost £2,903.

Salford, Lancs.—Dressing of approximately 60,000 sq. yd. of road surfaces in the city, for City Council—N. E. Box and Co., Ltd., Altrincham, £1,396 (recommended).

Surrey. — Improvement of Esher Road, Hersham between Albany Bridge and the Barley Mow roundabout, for C.C.—W. Old, Ltd., 433 Pinner Road, North Harrow, Middx., £86,800. Work just commenced.

Swadlincote, Derbys. — Supply and laying of approx. 14,000 sq. yd. of 1in. dense bituminous macadam surfacing on various roads for U.D.C. J. W. May, engineer—Groby Granite Co., Ltd., 18 Millstone Lane, Leicester.

Walsall, Staffs. — Construction of roads and sewers at Darlaston Road allotments housing site, for B.C.—Egas, Ltd., Reddicap Industrial Estate, Coleshill Road, Sutton Coldfield, £9,247 (recommended, subject to Ministry approval).

Walsall, Staffs.—Construction of access to garage sites, forecourts, etc., and the provision of street lighting at Darlaston Road allotments housing site, for B.C.—Direct Labour (recommended). Estimated cost £6,200.

Worcestershire. — Sub-contract for the construction of four bridges on the Bristol to Birmingham Motorways, contract 1, for C.C.—Davies, Middleton and Davies, Ltd., Phoenix Works, Caerphilly Road, Cardiff.

Wortley, Yorks. — Following for R.D.C. Arthur Wikeley, engineer and surveyor: Completion of roads and footpaths, Lump Lane Grenoside, stage 2, and completion of road, Hillside Way—Wm. Prestwich and Sons, Dronfield, Sheffield.

Surface dressing of approximately 57,000 sq. yd. of road—W. Glossop and Sons, York.

Yarmouth, I. of W.—Demolition of cattle pens and construction of concrete hardstanding on Yarmouth Quay, for the Yarmouth Harbour Commissioners. C. A. F. Sheppard, architect, 65b Union Street, Ryde—W. H. Brading and Son, Ltd., Adelaide Grove, East Cowes, I. of W., £778. Work about to commence.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Birmingham. — Modifications to drainage system to washing bath system at Tiverton Road Establishment, for City Council.—Lewis Gorton and Son, Ltd., 60 Alfred Street, Birmingham, 12.

Cannock, Staffs. — Following for U.D.C. E. Lomax, engineer and surveyor: Construction of sewage works extensions, comprising detritus channels, two reinforced concrete tanks 60ft. dia. and 15ft. deep, four 95ft. dia. filters, and one pumphouse, together with the usual ancillary sewers and mains, etc.—Thos. Vale and Sons, Ltd., Stourport-on-Severn, Worcs., £71,751; items of machinery, for sewage works extension—(1) Four 250 g.p.m. clear water centrifugal pumping sets, suitable for total heads up to 50ft., and one 250 g.p.m. centrifugal sludge pumping set, suitable for heads up to 40ft.; (2) four 95ft. dia. rotary distributors, complete with dosing equipment; (3) two sets of mechanical tank scraping equipment, suitable for tanks 60ft. in dia. and 15ft. deep. (1) Sigmund Pumps, Ltd., 61 Station Street, Birmingham, 5, £2,666; (2) Hartleys (Stoke-on-Trent), Ltd., Stoke-on-Trent, £1,668; (3) Ames Crosta Mills and Co., Ltd., Moss Iron Works, Heywood, £3,796.

Haydock, Lancs.—Laying of approximately 260yd. of 6in. and 9in. diameter sewers, together with manholes and other appurtenant works, and the construction of a small sewage pumping station at Grange Valley, for U.D.C. Charles J. Lomas and Son, civil engineers, 68 Barton Arcade, Manchester—A. C. Brew, Ltd., Irlam, Lancs.

Kingsclere and Whitchurch, Hants. — Tadley sewage disposal works, Silchester, Hants, for R.D.C., including earthmoving work for excavating about 11,600 cu. yd. and depositing same in adjoining areas in the preparation of graded irrigation areas and sowing with grass seeds. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton—G. S. Daniels, 387 Winchester Road, Southampton, £1,852 (accepted); G. S. Wright, £2,074; Foster Bros. (Hook), Ltd., £2,937; W. E. Chivers and Sons, Ltd., £2,979; Sam Booth, Ltd., £3,483; Bridgwater Bros., Ltd., £3,773; Tilbury Construction Co., Ltd., £3,998; Gee, Walker and Slater, Ltd., £5,487. Work commenced.

Luton, Beds.—Construction of foul and surface water sewers in the length of Old Bedford Road, between Kingsdown Avenue and Barnfield Avenue, for B.C.—F. M. Sparrow (Contractors), Ltd., 87 High Street, Clapham, Bedford, £2,661 (recommended).

Manchester.—Following for City Council: Low voltage cables and auxiliary equipment for secondary sludge treatment plant in connection with Davyhulme sewage disposal works extension—W. T. Parker, Ltd., Station Road, Burton-on-Trent; supply of equipment for automatic operation of pumps, controlling the removal of surplus sludge from activated sludge plant at Davyhulme sewage disposal works—Dewhurst and Partner, Ltd., Inverness Road, Hounslow, Middlesex (recommended).

Stourbridge, Worcs.—Construction of 54in. and 57in. dia. culvert, from Swan Street to the River Stour, for B.C.—Hawkins Bros., 62 Ruiton Street, Lower Gornal, £33,731 (recommended, subject to Ministry approval).

STREET LIGHTING

Bridgnorth, Salop.—Street lighting installations for B.C.—Cohen Bros. (Electrical), Ltd., Electric House, 11 King Edward Buildings, Bury Old Road, Manchester, £3,541 (recommended); Gallagher and O'Brien Enterprises, Ltd., £3,484; A.E.I. Lamp and Lighting Co., Ltd., £3,623.

Ellesmere Port, Ches.—Provision and erection of 80 concrete group B electric street lamps, complete, in various parts of the borough, as in-filling between existing lamps, contract 292 for B.C. Cecil W. Davis, engineer and surveyor — Gallagher and O'Brien

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Enterprises, Ltd., Cumberland Chambers, Church Gate, Loughborough, £4,290 (accepted); Engineering and Lighting Equipment Co., Ltd., £4,296; A.E.I. Lamp and Lighting Co., Ltd., £4,355; Walker Installations, Ltd., £4,357. Work to commence October.

Manchester.—Street lighting installation at Hawk Green, Marple overspill site, and concrete street lighting columns for City Council—Direct Labour and Cohen Bros., Electrical, Ltd., 11 King Edward Buildings, Manchester, 8, respectively (recommended).

GOVERNMENT CONTRACTS

Air Ministry.—Contracts to the value of £4,000 or over for the week ended July 22:

Building work: St. Mawgan, Corn.—Dudley Coles, Ltd., Bath Street, Plymouth, Devon; R.A.F. Station, Woolfox Lodge, Rutlands.—Bosworth and Wakeford, Ltd., Lawford Road, Rugby, Warwicks.; Bawdsey, Suffolk—L. J. E. Bye, Buckenham Road, Attleborough, Norfolk; Swanton Morley, Norfolk—Walter Lawrence and Son, Ltd., Ventnor House, London Street, Swaffham, Norfolk; Hemswell, Lincs.—W. and J. Simons, Friars Lane, Lincoln; Faldingworth, Lincs.—Frank R. Eccleshare, Ltd., Dixon Street, Lincoln; Honington, Suffolk—Haymills (Contractors), Ltd., Hanger Green, Western Avenue, London, W.5.

Civil engineering: Middleton St. George, Co. Durham—Dowsett Engineering Construction, Ltd., Dowsett House, Durham Road, Gateshead-on-Tyne, 9, Co. Durham.

Runway construction: London Airport, Hounslow, Middx.—Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, St. George's Circus, London, S.E.1.

Artificers' work: Shawbury (Salop), etc.—Whitchurch (Salop) Contractors, Ltd., Sherrymill Hill, Whitchurch, Salop; Syerston, Notts.—W. J. Roberts (Bottesford), Ltd., High Street, Bottesford, Notts.; Rufforth (York), etc.—F. Shepherd and Son, Ltd., Blue Bridge Lane, York; Oakington (Cambs.), etc.—Tooley and Youngs, Ltd., High Street, Stalham, Norfolk.

Surfacing work to paved areas: Honington, Suffolk—Wirksworth Quarries, Ltd., 286 Pentonville Road, London, N.1.

Sportsfield (preparation and landscaping): Lakenheath, Suffolk — Surfacing Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, Hants.

Asbestos insulation to roofs: Lyneham, Wilts.—Clark and Fenn, Ltd., 16 Old Town, London, S.W.4.

Painting and decorating: Chivener, Barnstaple, Devon — William Herd and Co., Ltd., 95 Baker Street, London, W.1.

Air conditioning system: 11 Kortin, Gozo Island, near Malta—Andrew Air Conditioning, Ltd., Woodbank Works, Stockport, Ches.

Air conditioning services: Handforth, Stockport, Ches. — Benham and Sons, Ltd., 66 Wibmore Street, London, W.1.

Supply and installation of diesel generating plant: Horham, Suffolk — Pelapone, Ltd., P.O. Box 4, Derby.

Metropolitan Police.—Recent contracts placed include:

External painting and repairs, Highbury Vale Police Station—W. T. Ricketts and Sons, Ltd., £733.

External painting, internal cleaning and redecorations, Brentford Police Station—W. J. Dickens, Ltd., £768.

External painting and repairs and internal redecorations, Bushey Police Station—V. G. Clements (Contractors), Ltd., £881.

Ministry of Works.—Contracts placed for week ended July 16:

Berkshire: Zone Switch Control, Basingstoke Road, Reading—erection—Y. J. Lovell (Bucks), Ltd., Marsham Lane, Gerrards Cross, Bucks.

Devonshire: Post Office, Bideford—erection of motor transport workshop and garage—Staverton (Contractors), Ltd., Staverton Bridge, Mill, Totnes.

Kent: Duke of York's School, Dover—erection of assembly hall—A. N. Anderson, Ltd., 66 Victoria Street, London, S.W.1.

Lancashire: Ministry of Labour Wool Disinfecting Station, Love Lane, Liverpool—conversion of boiler to oil firing—Associated British Combustion, Ltd., Portchester, Hants.

London: Wellington Museum, Apsley House, Piccadilly, W.1—alterations—Dove Bros., Ltd., Cloudesley Place, Islington, N.1; Whitehall District Heating Scheme, phase 1—builder's work, etc.—Higgs and Hill, Ltd., Crown Works, S. Lambeth Road, S.W.8; Hyde Park—improvement scheme—Dove Bros., Ltd., Cloudesley Place, Islington, N.1; Patent Office, 25 Southampton Buildings, W.C.2—alterations—Howe and White, Ltd., 35 Manor Road, Wallington, Surrey; Somerset House, Strand, W.C.2—installation of oil-firing boiler plant—G. N. Haden and Sons, Ltd., P.O. Box 14, 7-12 Tavistock Square, W.C.1; Post Office, Faraday Building—additional work—Higgs and Hill, Ltd., Crown Works, S. Lambeth Road, S.W.8.

Staffordshire: Swinfen Hall, near Lichfield—erection—Gee, Walker and Slater, Ltd., Uttoxeter Old Road, Derby, P.O. Box 42.

Worcestershire: Post Office Engineering Depot, Hungary Hill, Stourbridge—erection—J. Herbert and Smith (Kidderminster), Ltd., 5 George Street, Kidderminster; Post Office, Queensway, Halesowen—erection of sorting office—R. G. Horton, Ltd., Delph Road, Brierley Hill, Staffs.

War Department.—Contracts placed for week ended July 15:

Anglesey (Ty Croes): building — Wm. Eaves and Co., Ltd., Blackpool; wood casements—Watkin Jones and Son, Ltd., Bangor.

Berkshire (Windsor): building—J. Garrett and Son, Ltd., London, S.W.12.

Cornwall (Bodmin): miscellaneous — J. Garrett and Son, Ltd., Plymouth.

Devon (Okehampton): redecoration—T. H. Kenyon and Sons, Ltd., London, W.9.

Essex (Colchester): metal doors—Eclair Doors, Ltd., Birmingham.

Hampshire (Aldershot): building—Davies and Rentowl (Aldershot), Ltd., St. Albans; (Bordon): hardstandings — A. J. Dunning and Sons (Weyhill), Ltd., Andover; (Deepcut): building—E. J. Logan (Putney), Ltd., London, S.W.15.

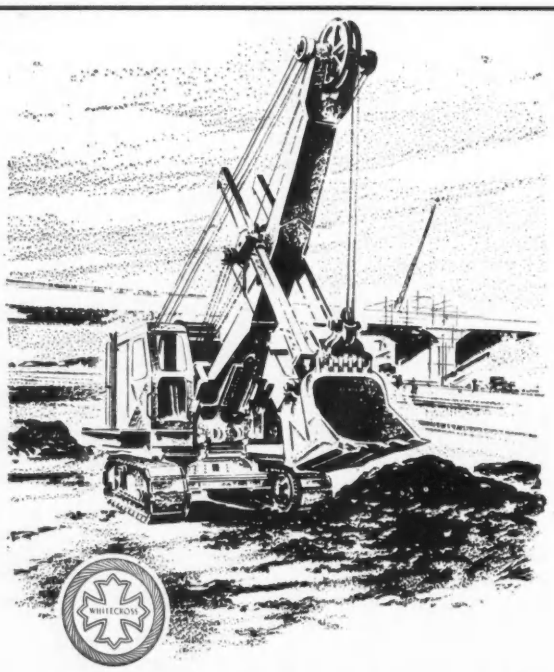
Middlesex (Wembley): building—Frank R. Freeman, Ltd., London, N.W.1.

Surrey (Guildford): miscellaneous—Sherfields (Farnham), Ltd., Farnham.

Wiltshire (Bulford): building—James and Crockerell, Ltd., Durrington; (Larkhill): roadwork—F. Rendell and Sons, Ltd., Devizes.

Worcestershire (Norton Barracks): redecoration—T. H. Kenyon and Sons, Ltd., London, W.9.

Yorkshire (Bradford): building—I. Totty and Sons, Bradford.



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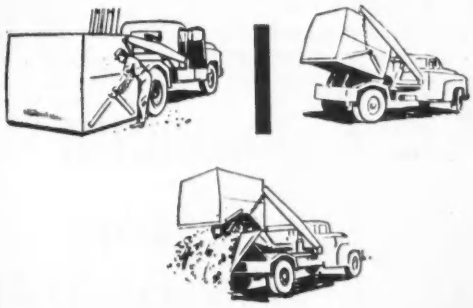

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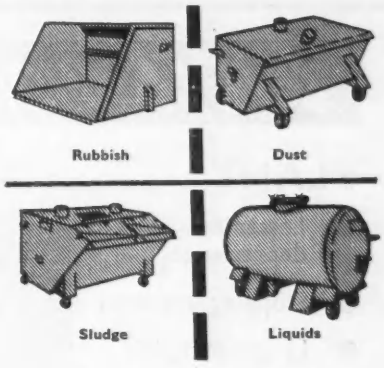

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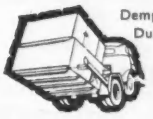

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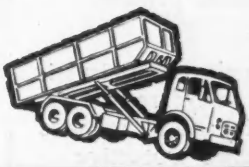

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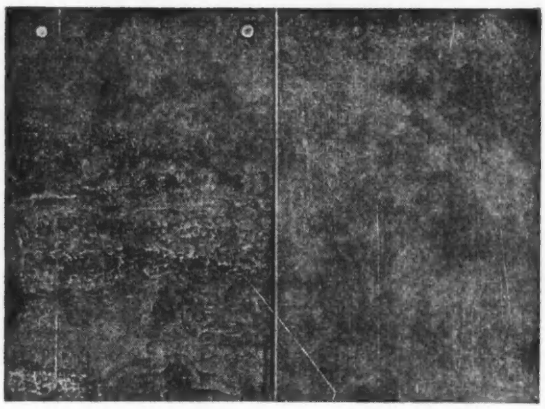

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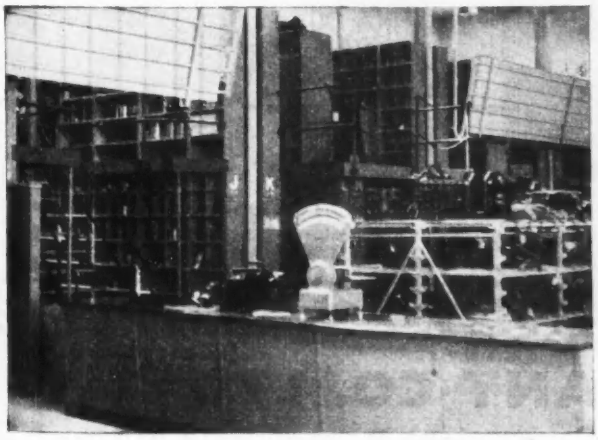

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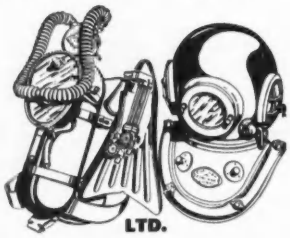

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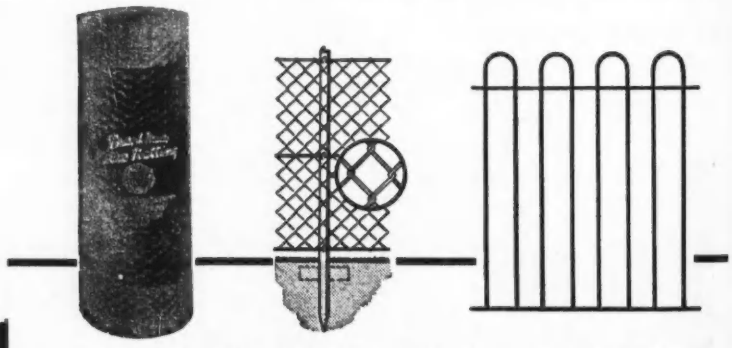

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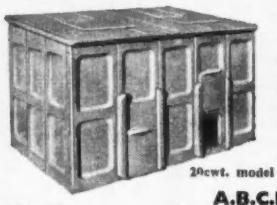

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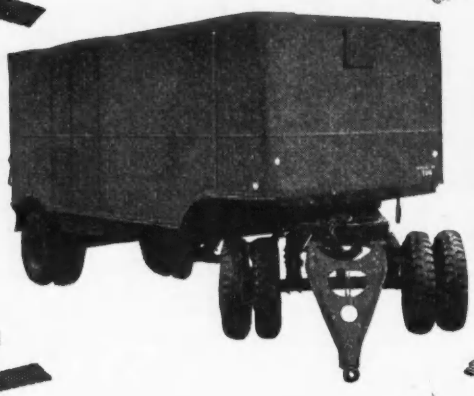

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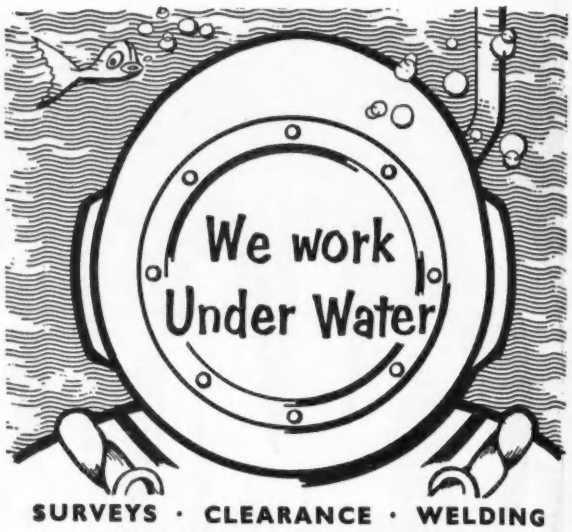

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(Continued from page 517)

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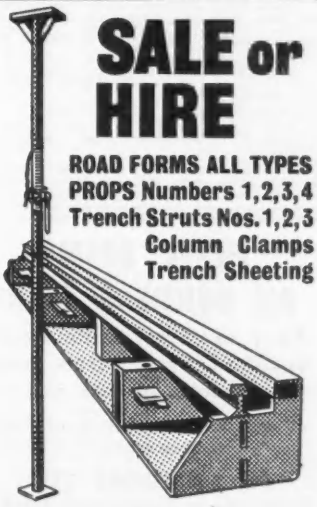
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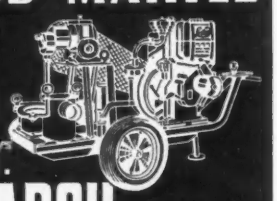

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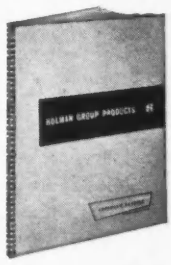

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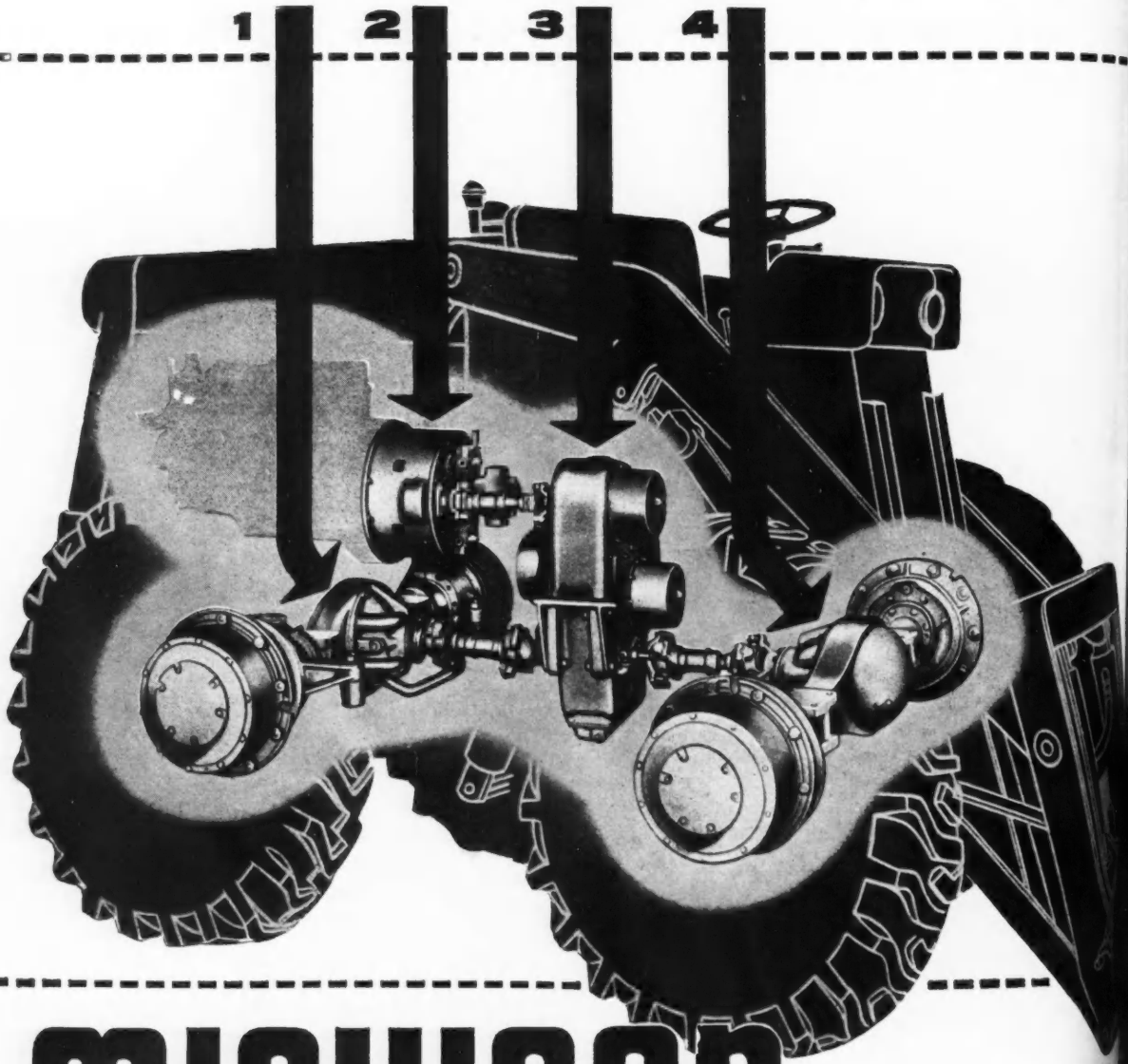

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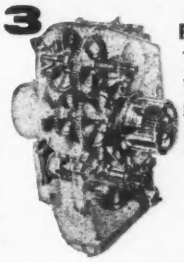

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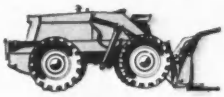

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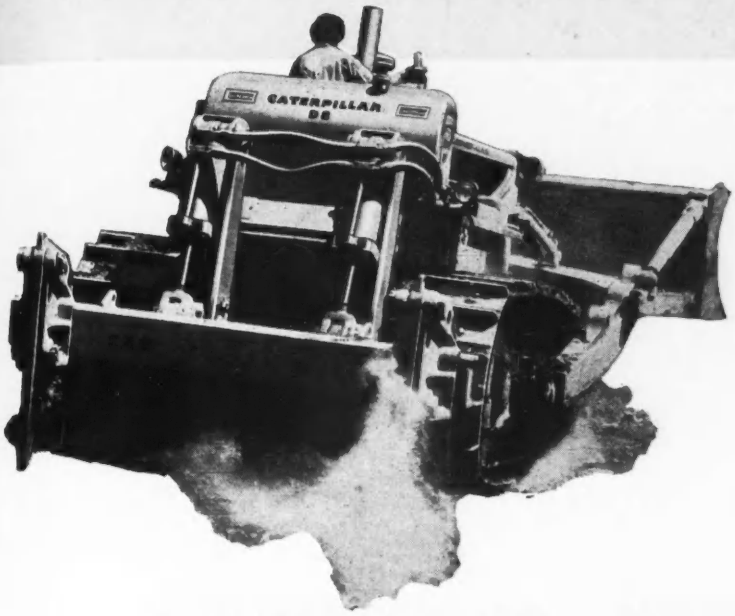

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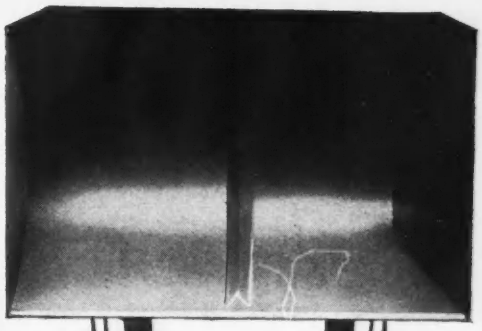

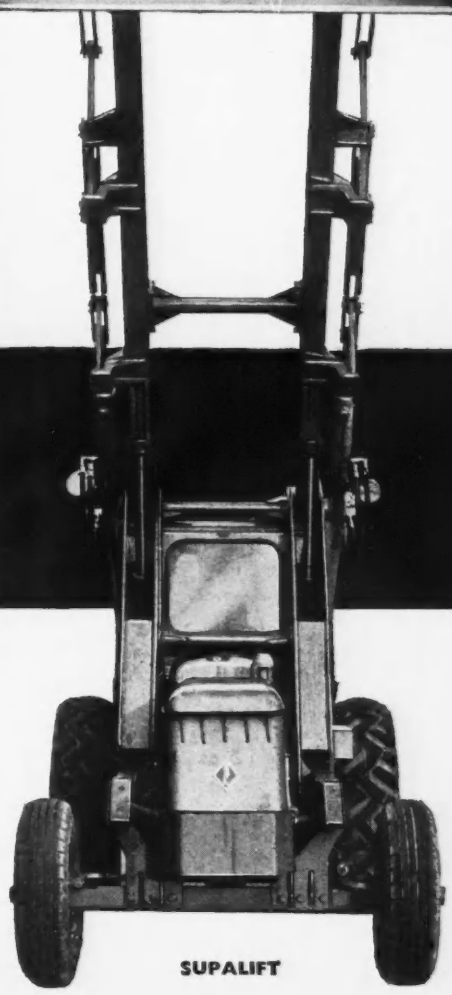

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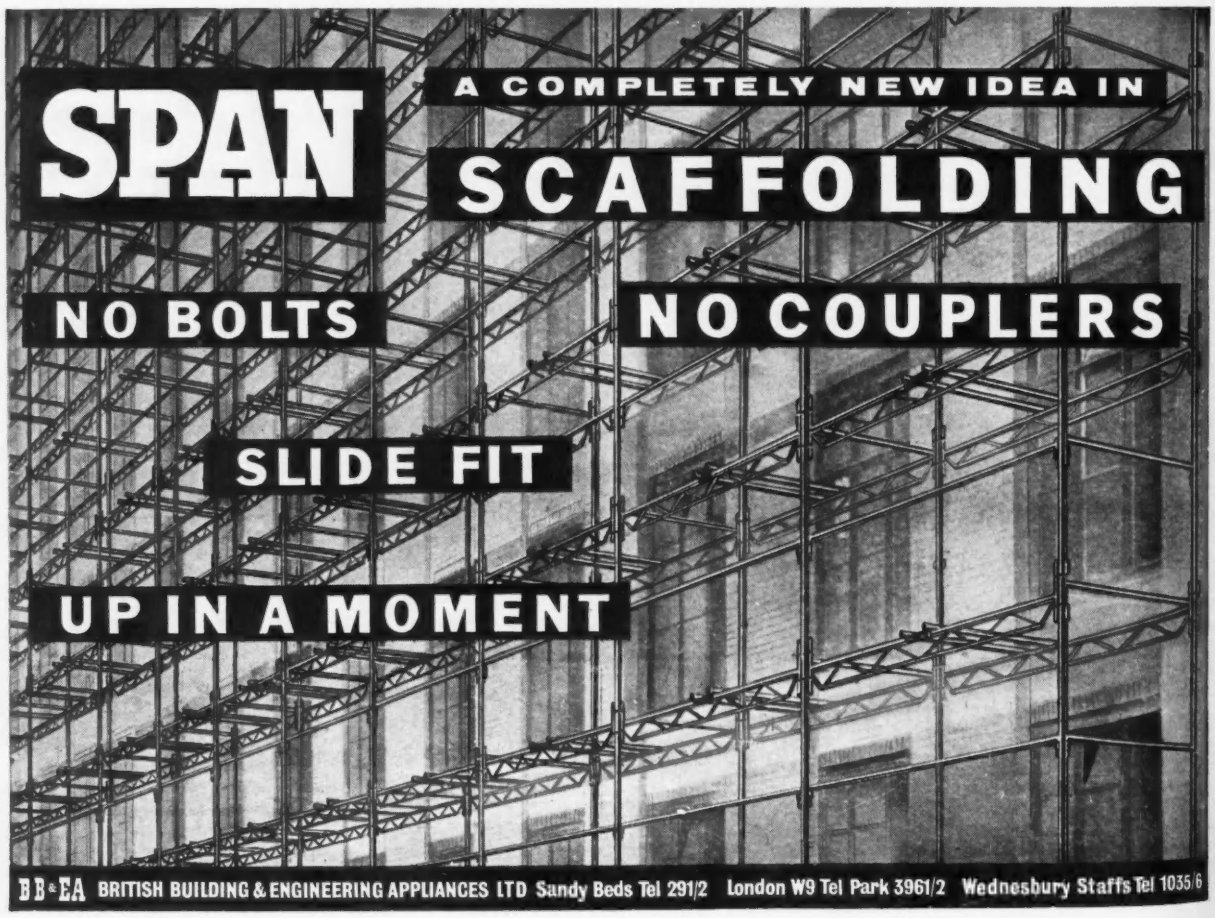

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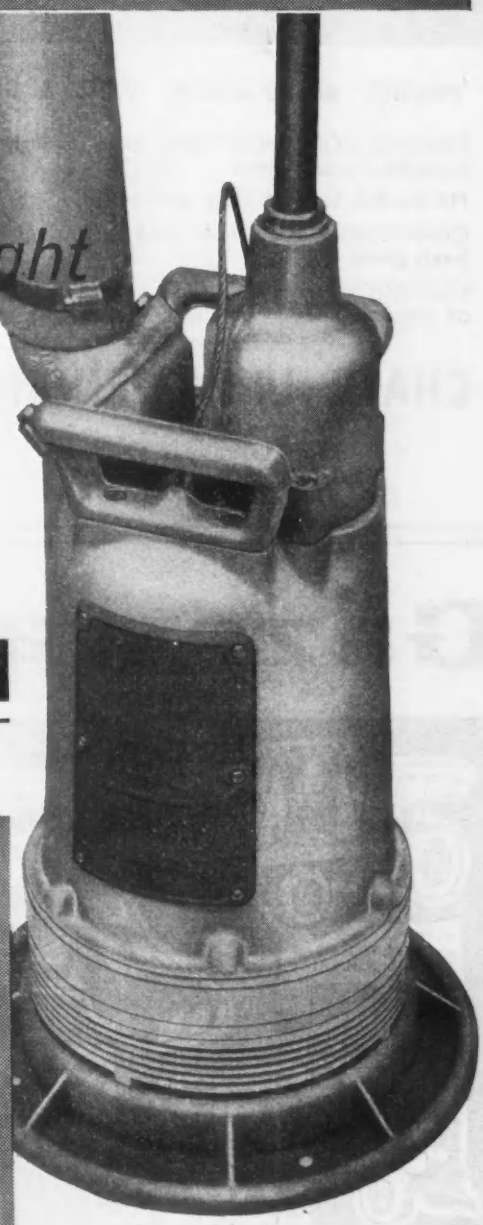

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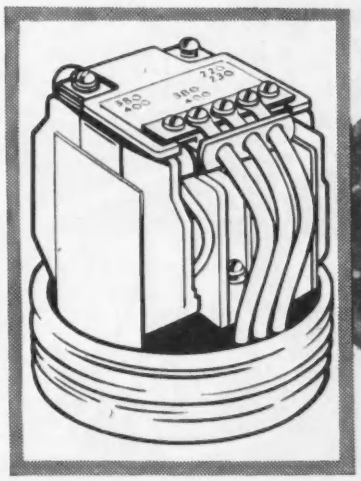

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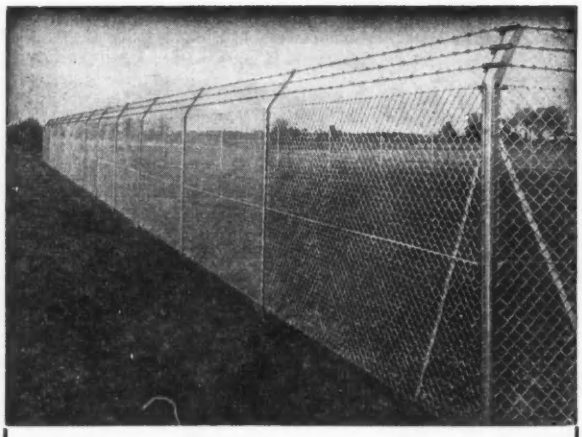

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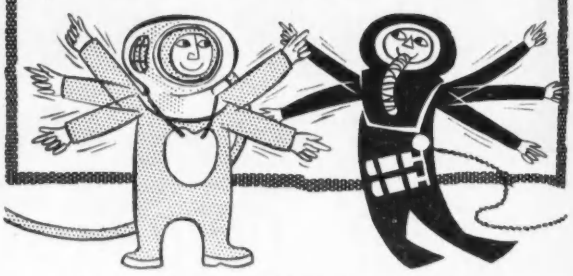

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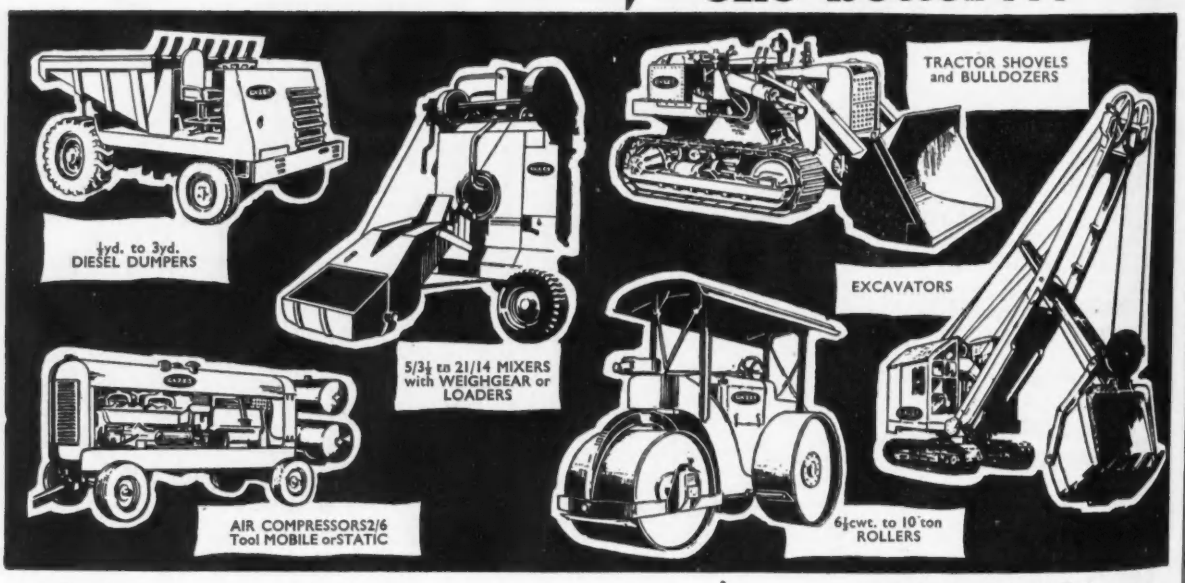

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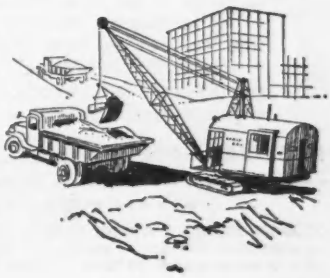

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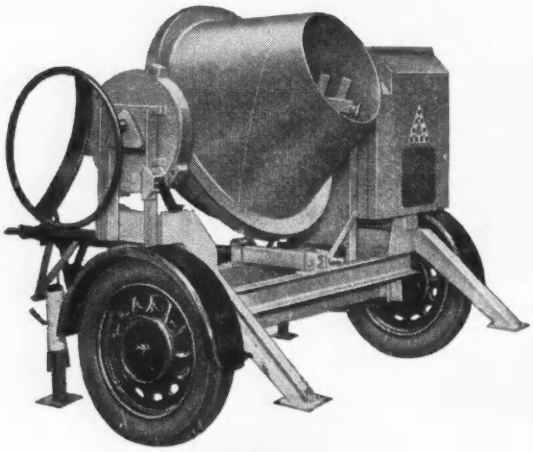

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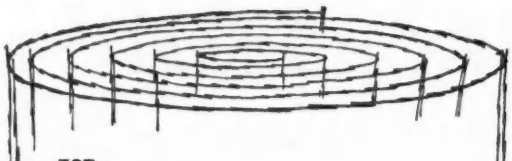

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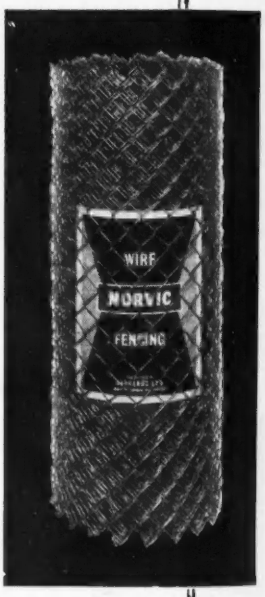

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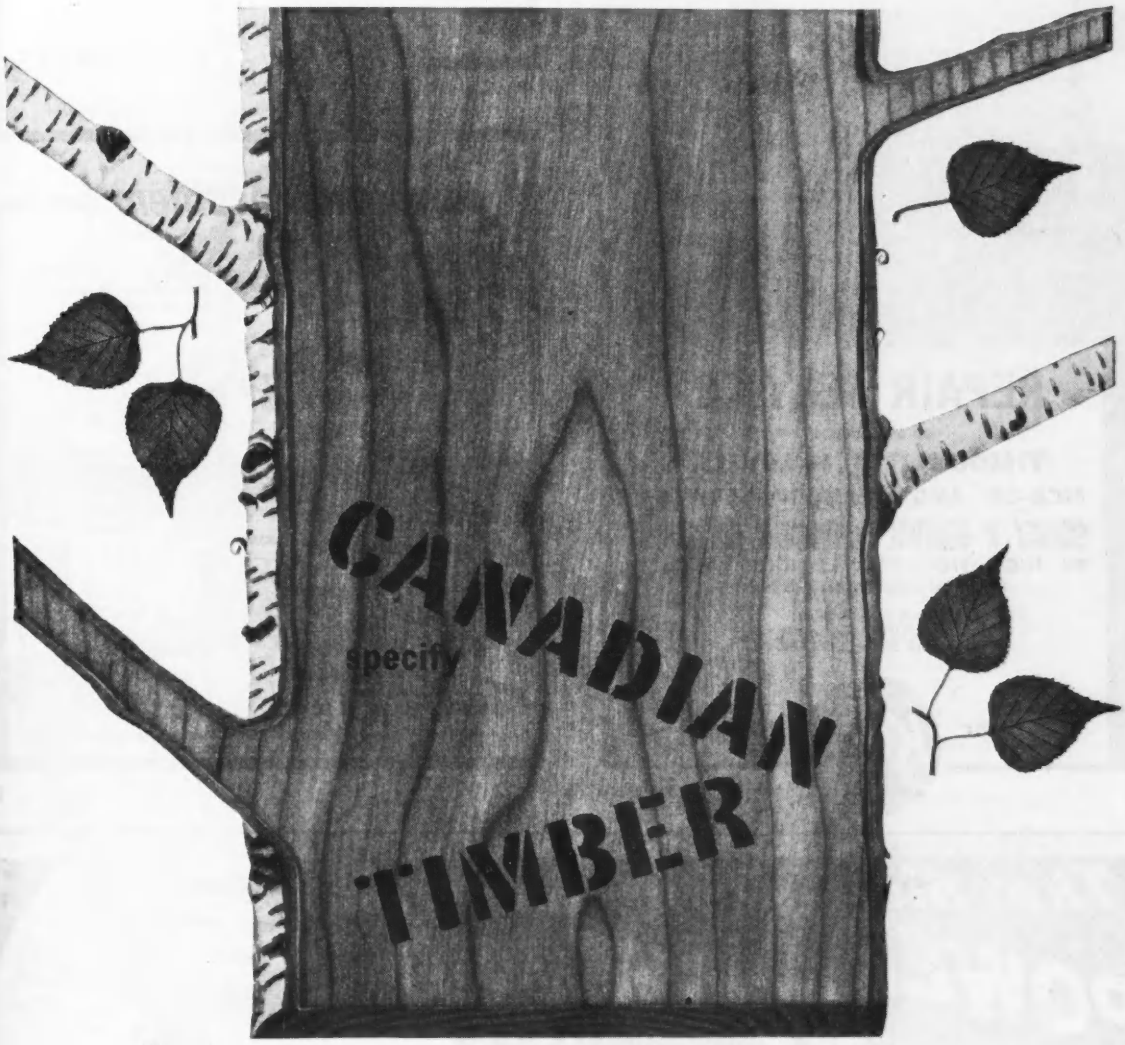

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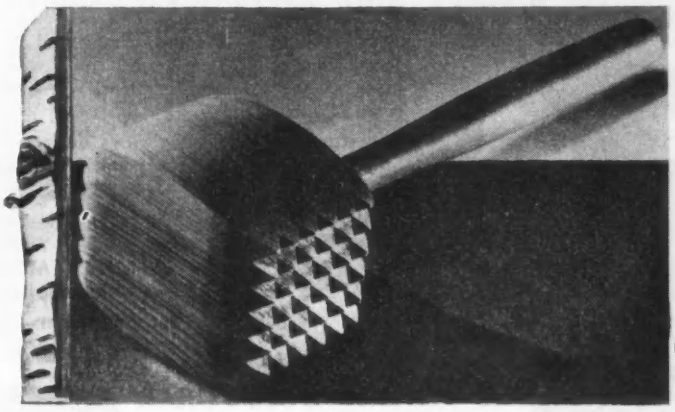

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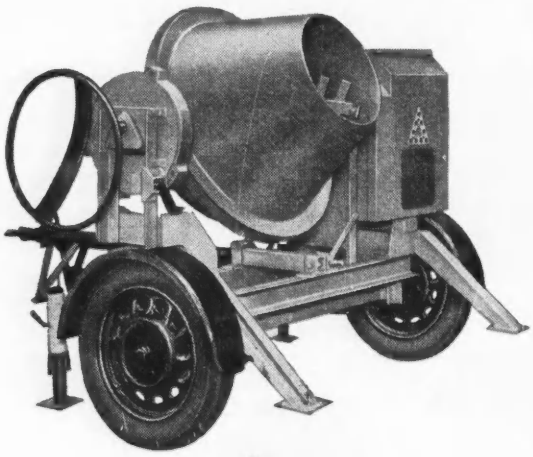

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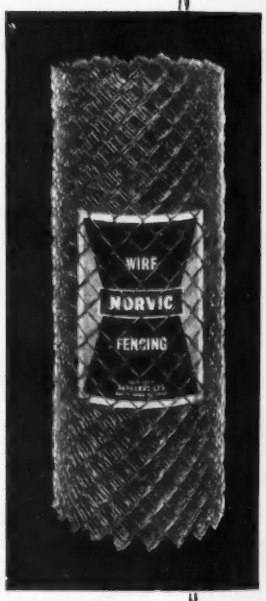

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Mesh	1", 1¼", 1½", 1¾", 2"
Gauges	12½, 10½, 10 and 9½ overall with galvanized or bright steel core
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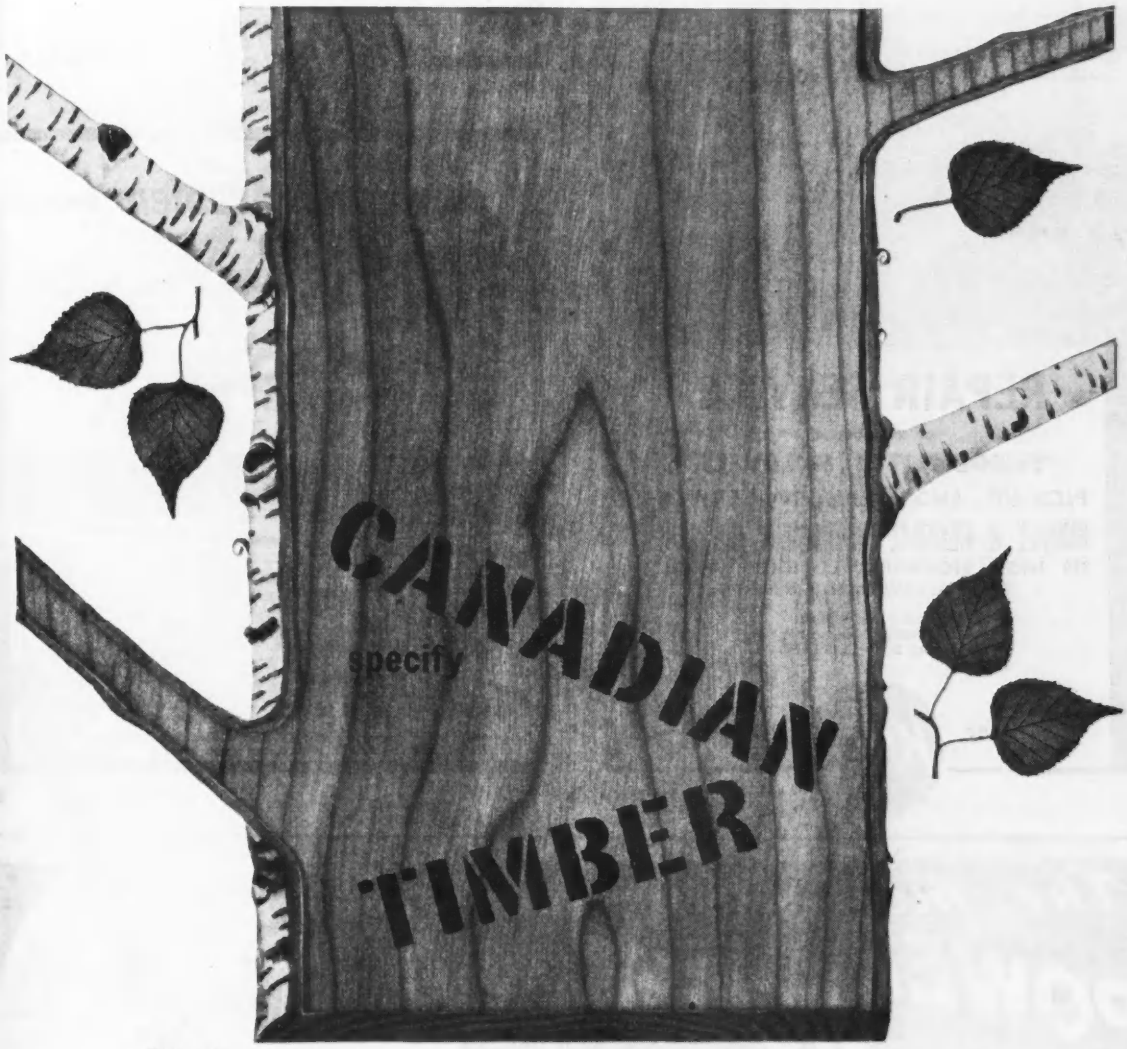
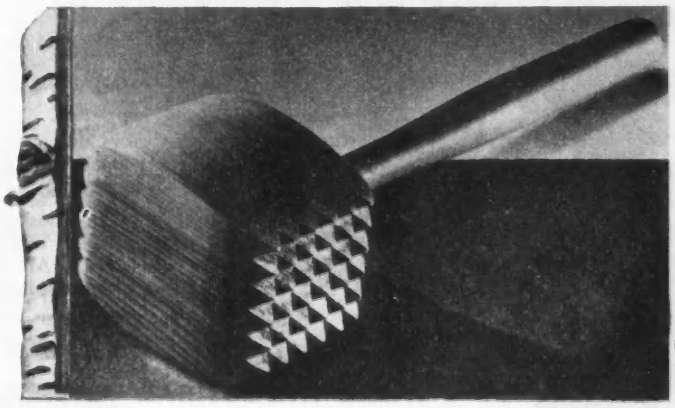
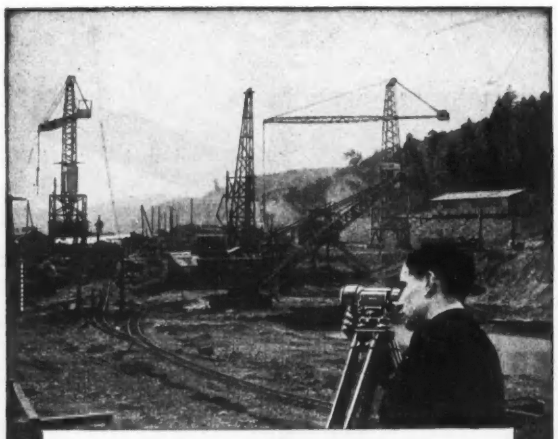


Birch Canadian forests produce a birch of exceptional height and thickness. As a timber, it is among the toughest and most popular of hardwoods. It has a good weight – about 43 to 44 pounds per cubic foot air dry – works easily, wears well and withstands mechanical stresses. Flooring, furniture, interior finish, veneers and plywood, agricultural implements and cabinet making – these are just a few of the applications of this handsome timber. *For further information*, please contact Commercial Secretary (Timber), Canada House, London SW1



Lathe-worthiness: another strong point of Canadian Birch.



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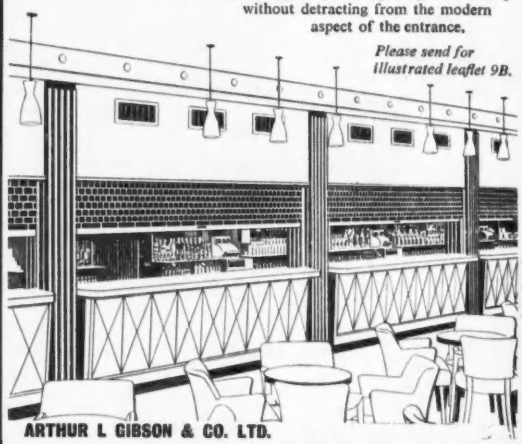

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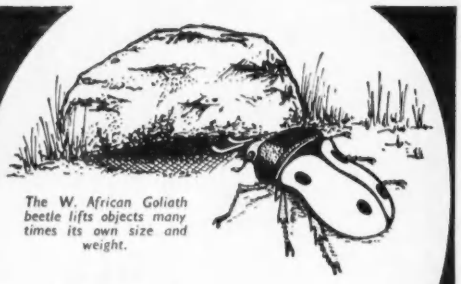

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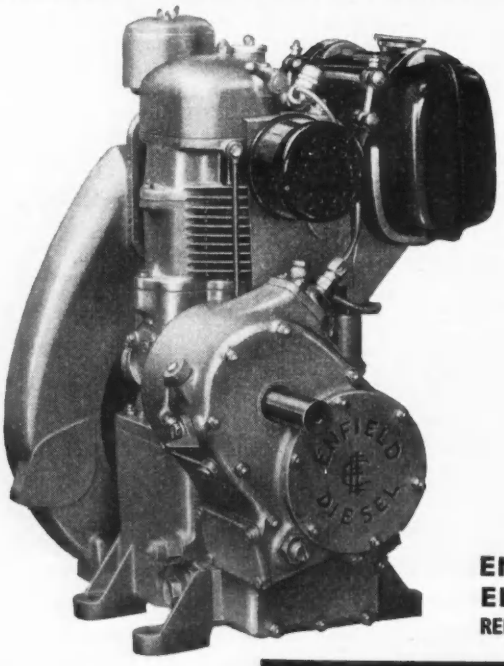

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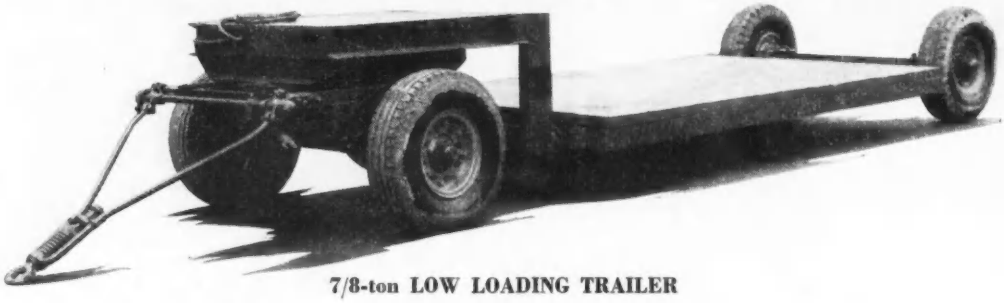

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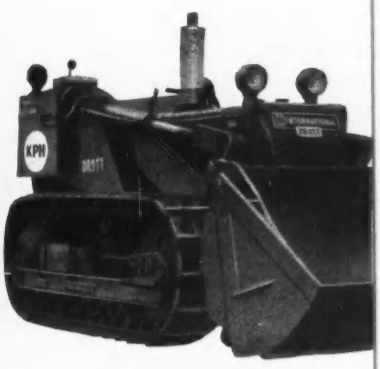

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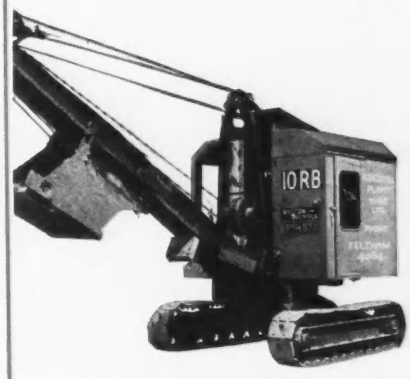

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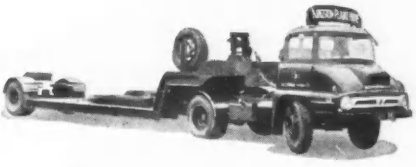

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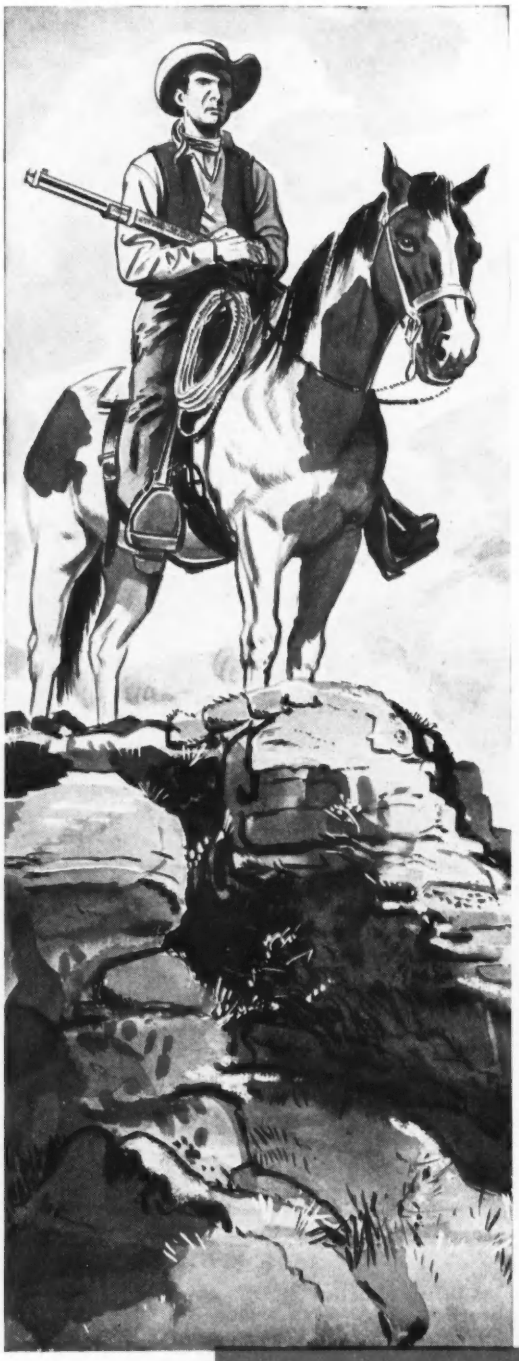

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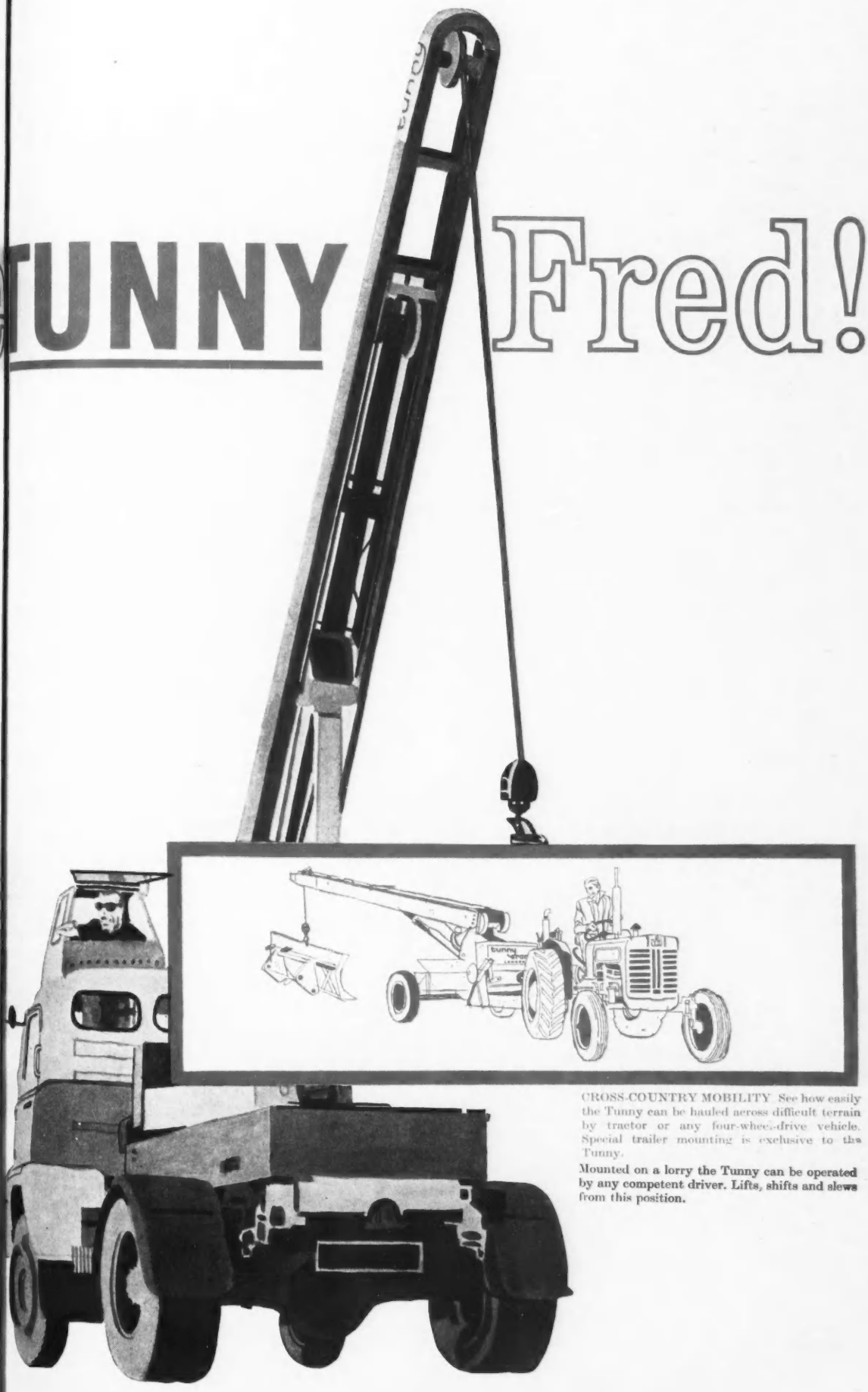

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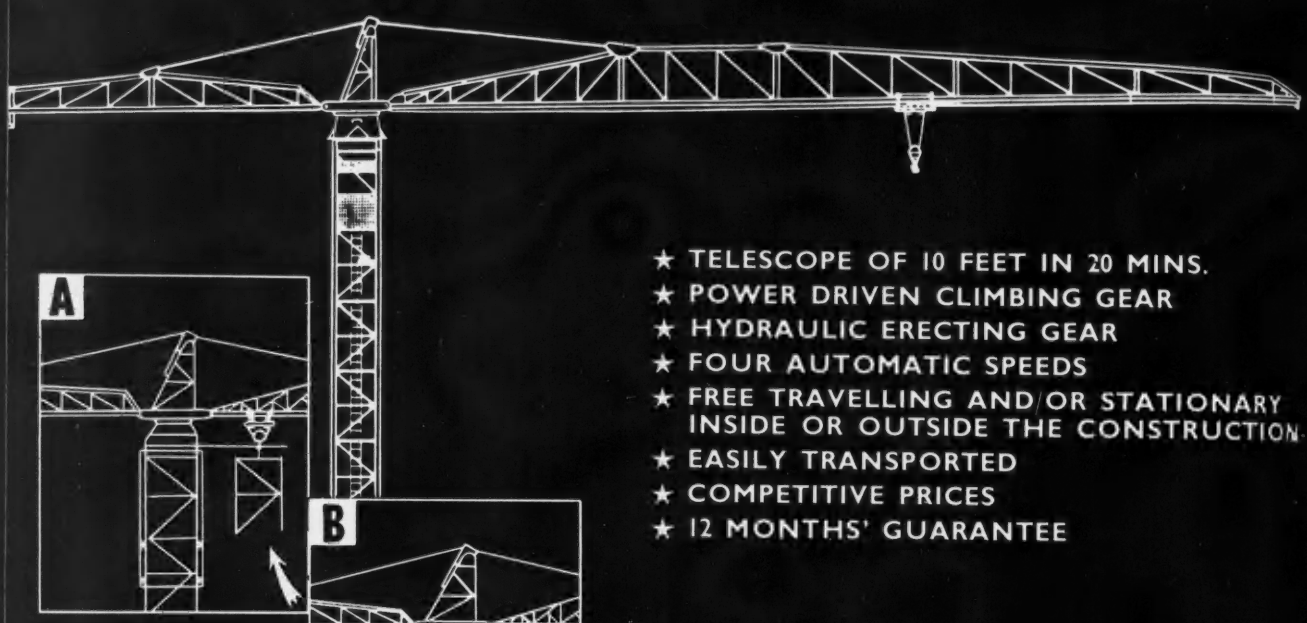

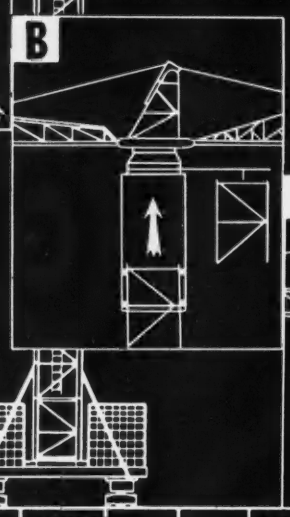

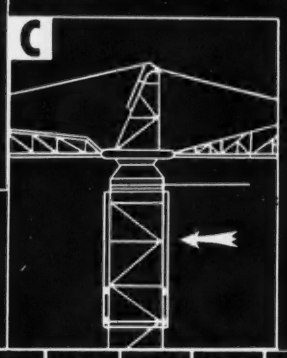

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Capacity in metre/tons	4 m/t	10 m/t	15 m/t	20 m/t	20 m/t	30 m/t	30 m/t	40 m/t	40 m/t	60 m/t	50 m/t	45 m/t	120 m/t
Maximum jib radius	34 ft.	49 ft.	66 ft.	66 ft.	82 ft.	82 ft.	92 ft.	82 ft.	99 ft.	66 ft.	82 ft.	99 ft.	99 ft.
S.W.L. at maximum radius	8 cwt.	12 cwt.	15 cwt.	20 cwt.	15 cwt.	25 cwt.	20 cwt.	30 cwt.	24 cwt.	60 cwt.	40 cwt.	30 cwt.	80 cwt.
Maximum S.W.L.	½ ton	1¼ ton	1½ ton	2 ton	2 ton	3 ton	3 ton	5 ton	3 ton	6 ton	6 ton	6 ton	12 ton
Maximum S.W.L. radius	28 ft.	26 ft.	36 ft.	36 ft.	36 ft.	36 ft.	36 ft.	44 ft.	44 ft.	35 ft.	31 ft.	29 ft.	40 ft.
Height under hook "free travelling"	31/66 ft.	70 ft.	100 ft.	100 ft.	100 ft.	135 ft.	135 ft.	135 ft.	135 ft.	127 ft.	127 ft.	127 ft.	165 ft.
Height under hook when "static"	31/66 ft.	264 ft.	300 ft.	500 ft.	500 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	500 ft.
Height under hook when "climbing"	—	N	O	L	I	M	I	T	A	T	I	O	N
Maximum hoist speed	100 f/m	100 f/m	150 f/m	125 f/m	160 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	300 f/m

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HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455), and Coronation Road, High Wycombe (Tel.: 4360/1) and at Gerrards Cross. Pits at Wraysbury (Middx.), and Ivor (Bucks.).

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

CAMBRIDGESHIRE

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DARBY'S SAND AND GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades of washed sand and gravel, ready-mixed concrete. Pits: Mepal and Chippenham, Cambs.

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. All grades washed sand and gravel, reject stone, hoggin, breeze, clinker, "Terlite" crushed granite, foamed slag, concrete and brick hardcore, ready-mixed concrete—all grades. (Tel.: Cambridge 56973/4.)

FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) Washed sand and gravel.

MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

NORTH ROAD GRAVEL WORKS, LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades washed sand and gravel, ready-mixed concrete and spun-concrete pipes. Pit: Wimblington.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel.: Cambridge 3969, 4353, 59966.) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggin, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.

CAWOOD, WHARTON AND CO., LTD., Plstyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel. 2204—6 lines.) Dry and coated Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsite Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WILLIAMS, C. F., LTD., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building sand and concrete sand. Bulk sand and gravel filling a speciality.

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PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 3335/6.) Gwithian Works, near Hayle. Pure silica gravel and grit, concreting, building, plastering and asphalting sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

ESK MANUFACTURING CO., LTD., Dalston Road, Carlisle, Cumberland. (Tel. Carlisle 2-4941.) All grades washed, crushed gravel and concreting sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

DENBIGHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

DERBYSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BURROWS BROTHERS (EXCAVATIONS), LTD., Wolsley House, 108 Saltergate, Chesterfield. (Tel.: Chesterfield 7130.) Red shale, black ashes, graded clinker, filter media, stone slag, sand, gravel and hoggin filling. Bulk quantity supplies.

GRAVEL HILL SAND QUARRIES, LTD. Tel.: Ashby (Leics.) 79. (See Leicestershire for details.)

HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brailsford 316.) And at Willington. (Tel.: Repton 3215.)

DERBYSHIRE

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel. 2204—6 lines.) Dry and coated Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.

SALISBURY AND WOOD, LTD., Matlock (Tel. 272/273). Limestone and granite, dry or coated gravel and sand; kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone. Lightweight aggregates, ashes, red shale.

DORSET

BULL BROS., S. AND L., LTD., 126A High Street, Winchester (Tel. 2264). (See Hampshire.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 8 Commercial Road, Parkstone (Tel.: 5379).

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

DURHAM

BRAITHWAITE, A., and CO., LTD., Knaresborough, Yorks. Quarry at Catterick. (Tel.: Old Catt. 157.) (For details see Yorkshire.)

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BENT-MARSHALL (LEYTON), LTD., 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast brick and concrete hardcore delivered all areas.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRIS PITS, LTD., The Limes Garage, Fenceplece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Dorsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.

HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

HUNNABLE, F. A., AND SON, LTD., Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, ¾in. to rejects; washed concreting sand and washed soft building sand. Classified sand for asphalt. Pits at Braintree, Bocking, Beasley End, Hedingham and Alphamstone.

LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.

PETERS AND BARHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Asheldham, Chignall St. James, Dagenham, Great Waltham, North Ockendon, Roxwell, West Thurrock.

READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). Washed and graded aggregates. Local Office and pits: Tillingham 287.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

GLOUCESTERSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.

CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

FLOYD AGAR AND CO., LTD., Sherston, Malmesbury, Wilts. (Tel.: Sherston 237.) Cotswold building stone, hardcore, etc. (Details under Wiltshire.)

GRIFFITHS, A., AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 3135 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.

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CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2271.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PETERSFIELD ENGINEERING AND CONCRETE PRODUCTS, Buriton, nr. Petersfield, Hants. (Tel.: Petersfield 1079.) Concrete aggregates, washed and graded filter media.

PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

WESSEX SAND AND GRAVEL CO., 126 Hillside Avenue, Southampton. (Tel. 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

HEREFORDSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds., Hunts. and South Cambs.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

HUNTINGDONSHIRE

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent. (Tel. 586). London office: 10A Eliery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners; tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Maling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051); and at Folkestone and Hayes. Pits at Lunsford, near Larkfield. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385). (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY. Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
(Tel.: Sefton Park 7261.)
Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)

ROUND-O QUARRIES, LTD., Helsby Street, Warrington (Tel. 35451—4 lines). Building and concrete sand and shale.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice-washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). Local Offices and pits: Chorley 3923 and Wigan 82039.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—VIGilant 2530.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester (Tel. 56682). Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

GRAVEL HILL SAND QUARRIES, LTD., Prior Park, Ashby-de-la-Zouch. (Tel.: Ashby 79.) Works: Hartshorne, Derbys. Yellow screened plastering and building sand, all to B.S.S.

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

LEICESTERSHIRE

MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester (Tel. 56682). Quarries at Mountsorrel, near Loughborough. ¼in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). (See Northamptonshire.)

WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castledyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HURDISS, J. W., LTD., Victoria Street, Grimsby (Tel.: Grimsby 3657) and Caistor (Tel.: Caistor, Lincs. 281). Building, plastering, concreting sand, also gravel, ballast, hoggin and roadmaking materials.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, 'phone Market Deeping 3132.

TREETFORD GRAVELS, LTD., Head Office: Deansgrave Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

COX, H., AND SONS, LTD.,
33 Southampton Way,
Camberwell, S.E.5.
(Tel.: Rodney 2215—3 lines.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GRUNDON, S., 79 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford. Pit at Bedfont, near Feltham. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready-mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9 (Tel.: Shoreditch 9128/9), and Fairlop Airfield, Forest Road, Ilford (Tel.: Hainault 6111/2).

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

CONTRACTORS' GUIDE TO AGGREGATES

MIDDLESEX

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand.

WRAYSBURY SAND AND GRAVEL CO., LTD. Pits at Wraysbury. (Tel.: Wraysbury 164.) Gravel aggregates, concreting, plastering and building sand.

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9). (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pit: Feltwell.

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Snetterton. Concrete aggregates, building sand.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

NORTHAMPTONSHIRE

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Fortly Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Yale 43.) Hard, broken limestone; dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ENSTON BROS., Llwyn Isaf Quarry, Clynnog Fawr, Caernarvon. (Tel.: Clynnon Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day: immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—6 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)

PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel. 2204—6 lines.) Dry and coated Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel. Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 4108/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S., (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H., (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Roadstone, Cotswold building and walling stone.

WRAYSBURY SAND AND GRAVEL CO., LTD., Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

RADNORSHIRE

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

RUTLAND

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix: large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always avail.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for dets.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

DANGERFIELD, F. J., AND CO., LTD., 216A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.

ROADS RECONSTRUCTION (1934), LTD., Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc. kerbs and pavings.

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel. 1086/7.) Coated stone also available.

SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel. Swansea 53071.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners, slag, hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality road-stone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

GRAVEL HILL SAND QUARRIES, LTD. Tel.: Ashby (Leics.) 79. (See Leicestershire for details.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6061).

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel. 2204—6 lines.) Dry and coated Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggin.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WINDMILL SAND AND GRAVEL QUARRIES, LTD., Cannock Road, Wolverhampton. (Tel. 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Chichester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggin.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DARBYS' SAND AND GRAVEL CO., LTD. Pit at Chippenham, Cambs. (See Cambs.)

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. (Tel. 56973/4.) (See Cambs.)

FRECKENHAM GRAVEL CO., LTD. Pit at Freckenham. (See Cambs.)

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HALL AND CO., LTD., Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Reigate. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

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It has been the subject of close scientific scrutiny throughout its development.

A number of technical papers on the different uses of Lytag are available and will be forwarded upon request.

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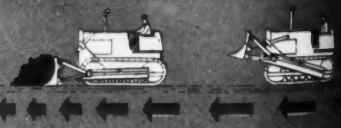
INDEPENDENT TRACK CONTROL allows the operator to make pivot turns, power turns and spin turns.



INSTANT POWER SHIFT enables the operator to change speed or direction ins on-the-go.

Other features exclusive to Case are.
(a) HYDRAULIC DOZER BLADE ANGLING OR TILTING
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THIS IS THE SUPERB CASE-ENGINEERED RANGE

CASE EQUIPMENT COMPRISES:

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Model 1000—100 h.p. 2 cu. yd. 18,700 lbs. lift capacity
Model 1000—100 h.p. 1½ cu. yd. 17,440 lbs. lift capacity

POWER-TILTING DOZERS

Model 1000—100 h.p. Max. 22,400 lbs. pull. 7 ft. 8 ins. x 3½ ins. blade. Wt. 15,870 lbs.

POWER-ANGLING DOZERS

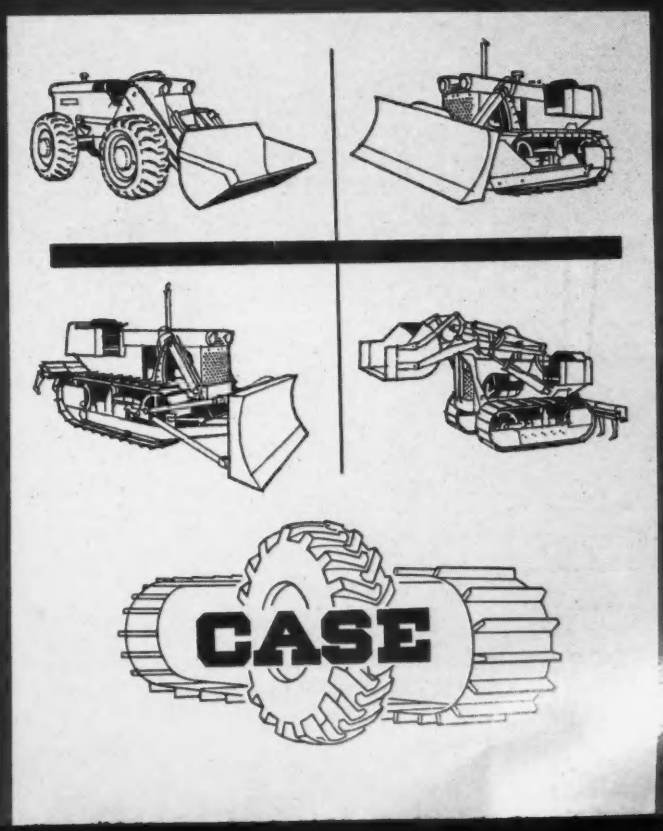
Model 1000—100 h.p. Max. 18,400 lbs. pull. 16 ft. x 2½ ins. blade. Digging depth below rollover. Angles hydraulically both ways 20° from centre. Wt. 16,340 lbs.

4-WHEEL-DRIVE TERRALOAD RS

Model W 12—120 h.p. 4-wheel drive loader. 1½ cu. yd. standard bucket. Rear wheel power. Torque converter. Max. speed 23 m.p.h. forward and reverse.

Model W 9—80 h.p. 4-wheel drive loader. 1½ cu. yd. standard bucket. Power-steering. Torque converter. Max. speed 23 m.p.h. forward and reverse.

Further models will be announced as they become available in Britain.



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